# FM 21-75

DEPARTMENT OF THE ARRY FIELD MARUAL

# COMBAT TRAINING OF THE INDIVIDUAL SOLDIER AND PATROLLING



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## COMBAT TRAINING OF THE INDIVIDUAL SOLDIER AND PATROLLING

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#### PART ONE

#### COMBAT TRAINING OF THE INDIVIDUAL SOLDIER

# CHAPTER 1 GENERAL

## 1. Purpose and Scope

- a. This part of the manual is your guide in the battlefield techniques of the individual Soldier. It explain how to perform your duties as a Soldier on the battlefield. It shows you how to protect yourcelf, how to preserve your arrength and health, and how it see better at night, It leaches the techniques employed by the individual Soldier to defeat the enemy. Combain Intelligence is explained bacauce you are a very important agency for obtaining information about the enemy. Messages and meanga writing are axplained and illustrated because you may have to prepare or copy a message or act as a messenger at any thm. Battle indoctrination and battlefield survival are explained to better prepare you for combain.
- Material presented herein is applicable to both nuclear and nonnuclear warfare.
- c. User of this manual are ancouraged to submit recommended changes or comments to improve the manual. Comments should be keyed to the specific page, paragraph, and line of the text in which change is recommended. Reasons should be provided for each comment to insure understanding and complete evaluation. Comments should be forwarded direct to the United States Army Infantry School, Fort Benning, 61

#### 2. Your Jab as a Soldier

a. As an individual Sodier, you make significant contributions to army activities. You are important as an individual one Army is made up of individuals, just like you, working together as a team. The American people invest time, money, and effort in you, As an American Soldier, you are a potential leader and your development is one of the Army's most vital missions.

b. The ultimate goal of the Army is success in battle. Your job is to help achieve this success. Regardless of your branch of service or job assignment, you may be called upon to fight. You may have to fight alone, but most of the time you will work with other Soldiers under a unit or team leader. You can prepare yourself by acquiring the knowledge and akills needed by the modern Soldier. Success in bettle depends on teamwork of confident, well-trained Soldiers. Within each unit and within the Army as a whole, men are trained to operate as a team. By doing your job well, you help your team to win. By winning, you and the members of your team are protected and you help assure the success of the larger units.

#### 3. Your Training as a Soldier

- a. You must learn to operate effectively over all types of terrain, in all kinds of weather, by day, and by night, Your mission will often require you to move close to, within, or behind the enemy's area. To do this, you must be highly skilled in moving quietly and taking advantage of cover and concealment. You must know how to use your how to use your you will see what is around you, in both daylight and darkness. You must know to report what you see promptly and accurately. You must know how to report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you see promptly must know how the report what you are promptly must know how the report what you are promptly must know how the report what you must know how the report what you are promptly must know how the report what you have you have you had you had you had you have you had y
- b. Your training teaches you these thinge and makes you experior to the enemy. Experienced officers and noncommissioned officers explain and demonstrate what you must know; you are then required to perform until you are thoroughly exilide, you would need to be a support of the property of the prope

#### CHAPTER 2

#### COMBAT TRAINING

#### Saction I. GENERAL

#### 4. Purposa

The purpose of combet training is to mold you into a tough, selfreliant, fighting man, capable of performing effectively as a member of your team; to help you build and maintain the aggressive spirit—the will to close with and kill or capture the enemy.

#### 5. Phoses of Combat Training

- a. Combat is a continuous process—contact with the anemy must be constantly maintained. You must be able to fight by day or by night. Therefore, your training is in two general phases: training for day combat and training for night combat.
  b. Some of your training prepares you to fight by day; some
- is especially applicable to night fighting; but most of your training applies equally to day or night combat.

  c. You must consider visibility in deciding whether to apply
  - c. You must consider visibility in deciding whether to apply day or night principles and techniques.
    - (1) For example:
      - (a) A bright moon or artificial illumination may provide better observation than a dark, overcast day.
        - (b) Heavy fog, rain, smoke, or dust may greatly reduce visibility, day or night.
           (c) The period before sunrise is usually too dark for
      - (c) The period before sunrise is usually too dark for atrictly day techniques, and the period before sunset is usually too light for atrictly night techniques.
    - (2) Under such conditions, it may be necessary to vary your techniques, or to combina day and night principles and techniques.

#### Section II. DAY AND NIGHT COMBAT

#### 6. Cover and Concealment

a. Cover is protection from the fire of enemy weapons. It may



rigure 1. Natural protection from fact trajectory fire.

be natural or artificial. Natural cover (ravines, hollows, reverse slopes) and artificial cover (foxholes, trenches, walls) profect you from fait trajectory fives and partially protect you from high-angle fires and the effects of nuclear explosions (fig. 1).

- b. Concediment is protection from enemy observation. It too, may be natural or artificial.
  - Natural or artificial.
     Natural concealment is provided by your surroundings and needs no change to be used; for example, bushes,
    - grass, and shadows.

      (2) Artificial concealment is made from materials such as burlap or nets, or from natural materials such as bushes, leaves, and grass which are moved from their orignal location.

#### 7. Concealing Yourself

a. Avoid Unnecessary Movement. Remain still—movement attracts attention. You may be concealed when still, yet easily detected if you move. Remember that movement against a stationary background causes you to stand out very clearly. When

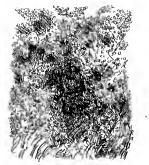


Figure 2. Blend with your background.

you must change positions, move carefully over a concealed route to the new position.

- b. Use All Available Concealment.
  - (1) Background is important; blend with it to prevent enemy detection of your position. Trees, bushes, grass, earth, and mannade structures forming your background vary in color and appearance, making it possible for you to blend with them. Select trees or bushes which blend with your uniform and absorb the outline of your figure.
    - (2) Shadows help hide you. The soldier in the open in figure 3 stands out clearly, but the two soldiers in the shadows are difficult to see. Shadows are found under most conditions of day and night.
- c. Stay Low to Observe. Observe from a crouch, a squat, or the prone position. You present a low silhouette, making it difficult for the enemy to see you.

- d. Expose Nothing That Shines. Reflection of light on a shiny surface instantly attracts attention and can be seen for great distances.
  - e. Keep Off the Skyline. Figures on the skyline can be seen from a great distance, even at night, because a dark outline stands out against the lighter sky. The silhouette formed by your body makes a good target.
- f. Alter Familiar Outlines. Military equipment and the human body are familiar outlines to all Soldiers. After or disguise these revealing shapes.
- g. Keep Quiet. Noise, such as talking, can be picked up by enemy patrols or listening posts.

#### 8. Temporary Battlefield Positions

Select temporary firing or observation positions which take advantage of available cover and concealment. Figure 5 illustrates some temporary battlefield positions. Study these pictures. They emphasize that you should:



Figure 8. Shadows help hide you,



Figure 4. Correct and incorrect battlefield positions.

- a. Observe and fire around the side of an object. This conceals most of your head and body.
- b. Stay low to observe and fire whenever possible. You are a smaller target, you can aim better, and you take advantage of concealing vegetation.
- c. Select a good background before observing over the top of an object. Avoid observing over the top of a ditch unless the sides are overgrown.

#### 9. Camauflage

a. Camouflage consists of the measures you take to conceal

yourself, your equipment, and your position from enemy observation. You may use naturel and artificial materials. Remember these rules:

- (1) Take advantage of all available natural concealment.
- (2) Alter the form, shadow, texture, and color of objects.
- (3) Camouflage against ground and air observation.
- b. Camouflage your position as you prepare it.
  - (1) Study the terrain and vegetation in the area. Arrange grass, leaves, brush, and other natural materials you use to conform to the area. For example, do not expect branches stuck into the ground in an open field to provide effective amondiane.
  - vide effective camouflage.

    (2) Use only as much material as needed. Excessive use of material (natural or artificial) can reveal your position.
  - (3) Obtain your natural material over a wide area. Do not strip an adjacent area of all foliage because such bared areas attract enemy attention.
  - (4) Dispose of excess soil by covering it with leaves and grass or by dumping it under bushes, into atreams, or into ravines. Piles of fresh dirt indicate an area is occupied and raduce affectiveness of camouflage.
  - (5) After your camouflage is completed, inspect it from the snemy's viewpoint. Check often to insure it remains natural looking and actually conceals your position. If it does not look natural, rearrangs or replace it.
  - does not look natural, rearrange or replace it.

    (6) Practice camouflage discipline. The best camouflage fails
    to provide concealment if tracka lead to your position
    or if cans and boxes are scattered about. Every man in
    your unit shares this responsibility.
- s. Equipment must blend with the natural background. Ramember-vegetation changes color with the assaon.
  - (1) Your web equipment—pack, belt, canteen cover—blends well with most terrain unless it is badly faded. If faded, color it to blend with the aurrounding terrain. If no paint is available, use med, charcoal, or crushed grass. Remember to paint in bold, irregular patterns (fig. 5).
    - (2) Aller the distinctive silhouette of your belmet with a cover made of cloth or busine colored to blend with the terrain. Let follage stick over the edges to alter the outline—but do not use too much. If material for covers is not available, disguise and dull the surface of your helmet with irregular patterns of paint or mud. Use a camouflage band, string, burlap atrips, or rubber bands to hold follings in place.

- (3) Use mud or dirt to dull the shiny surfaces of your weapon. Be careful, however, to keep the working parts clean so your weapon will function properly. Remember to dull the shine of the bayonet.
- (4) Wear a snow suit and color your equipment white when operating against a background of unbruken sunwcovered terrain.
- (5) Color your equipment black or forest green when operating in the jungle.
- d. Your field and work uniforms also blend well with must terrain unless they are badly faded. If your uniform is fuded, camouflage it with mud. soot, paint, or dye.
- e. Except for the snow sait, there is no issue camouflage suit for unusual conditions. If a snow suit is not available, you can make one from a sheet or mattress cover. You can make as make a suit to blend with other terrain by pointing an old suit of fatigues or by attaching bow-lies of colored burlap garlands to an old suit of fatigues.
- Exposed skin reflects light and attracts the enemy's attention. Even very dark skin will reflect light because of its natural oil.
  - Camouflage face paint aticks are issued in three standard two-tone sticks as follows:
    - (a) Loam and light green—for light skinned troops, in all but anow regions.
    - (b) Sand and light green—for dark skinned troops.
       (c) Loam and white—for all troops in snow-covereit
    - (c) Loam and white—for all troops in snow-covered terrain.

      (2) Paint the shine areas: forchead, cheekbones, nose, and
  - chin with a dark color and shadow areas; around the eyes, under the nose, and under the chin with a light color. The Issue type face paint stick should be used in a lwo-color combination applied in an irregular pattern.
  - (3) Burnt cork, charcoal, or lampblack can be used to tone down exposed areas of skin when issue type face pain! sticks are not available.
  - (4) Mud should be used only in an emergency and then only after approval by a medical officer due to the possibilities of harmful bacteria. Mud changes color as it dries and may peel off, leaving the skin exposed.
  - (5) When applying camouflage, use the buddy system—work with another man and check each other.







Figure 5. Camouflage your equipment,



Figure 5. Camanflage your face in an irregular pattern.

#### 10. Care of Your Weapon

- a. Your weapon functions best when properly maintained. Protect it from the weather; keep it free of sand, dirt, snow, or ice; do not abuse it or allow others to abuse it. Carry cleaning tools and malerials and keep your weapon clean at all times, consistent with camouflage requirement.
- b. In extremely call weather your weapon can become so sluggish it will not fire. Use very little and very light oil in such climates. A weapon taken from freezing outside temperatures into warmer inside temperatures will sweat for about an hour. Dry your weapon off before taking it book into freezing temperatures or the confineers do motiver will freeze the moving parts. If this happens, free the frozen parts by thawing; do not force the warm outsides when you enter warm stellers for short periods.
- c. Oil on your weapon evaporates quickly in hot climates. Check it often—a dry weapon quickly develops trouble. Do not leave your weapon in the sun.

#### 11. Using Your Waspon

- a. Keep your weapon available at all times and always be ready to fire it. Whan firing, use the aids of a building, a tree, a log, or unything which steadies your aim and increases your accuracy.
- b. Exact, clara targels are seldom seen on the battlefield because the enimy is an ankois as you are to avoid detection. You may have to fire on suspected enamy positions awan though you may have to fire on suspected enamy positions awan though you firing, force him to move, or sears him into surrendering. Fire your version! A manufallon kept in your belt when it should be fired, is wasted. You have to shoot to enable your unit to move forward and till or cannot the seen.
- c. Sometimes it is dealrable to bring surprise fire on the enemy, in this case, hold your fire until ordered to shoot; then select your own siming points or targets within the area assigned to you. When all men of your team do this, the initial burst is heavy and accurate.

#### 12. Sounds and Smells

a. Sounds are information to you. Learn to identify common battlefield noises—the snap of a twig, the click of a bolt, the rattle of a carteen. You can learn a lot by listening. Train yourself to be nation—it may be necessary to listen in compile silence for

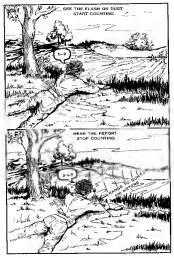


Figure 7. Estimating distance in day.

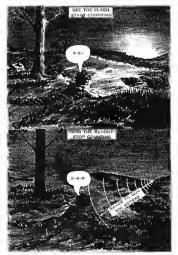


Figure 8. Estimating distance at night.

long periods. If you are wearing a hood or ear flaps, remove them temporarily to listen.

- Sounds can be heard better at night because there are fewer sounds to interfere and because cooler, damper, night air carries sound better.
  - (2) Sounds can reveal year presence to the enemy. Suppress a sneeze by pressing up on your nostril with your fingers. If you start to cough, squeeze your Adam's apple slightly. If you cannot avoid sneezing or coughing, muffle the noise by harripy your nose and mouth in your hands or sleeve.
- b. Smalls can halp or endanger you. Odors from gasoline, cooking food, or burning tobacco can warn you of the enemy's presence or elert him to yours.

#### 13. Estimating Distance

a. Sound travals through the six at a fairly constant speed-sount 350 meters per second (1100 feet). This makes it easy to estimate distance if you can see and hear the action. For example, when you sea the flash or amovie of a weepon, or the duel it raises, immediately start counting at a rete of four counts per accord. When you hear the report of the weepon, stop. The number you are counting when you stop is the renge to the weapon in hundreds of meters. If you count to eight before you hear tha report, the range is 300 meters. (Eg. va and S).

b. Practica timing the speed of your count. The best way do do this is to practice with blank ammunition fired at known dictances. If this is not possible, have someone time you while you count. When counting more than 10, start over again; counting numbers like 12 and 33 throws your timing off. When counting at the correct speed, you count to 10 twice in five seconds. Speed up or slow down until your timing is correct. With practice, you can eatimate distance more accurately by this method than by eye alone.

#### 14. Observation and Listening Posts

- a. An observation post (OP) is a fixed location from which you observe an area. Observation posts are usually manned by teams, with two or more men on each relief as observation is continuous during periods of good visibility.
  - (1) An observation post should be selected to provide-
    - (a) A good field of observation.
       (b) Cover and concealment.

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- (c) A concessed route of approach from the rear.
- (d) An inconspicuous appearance.
- (2) The following should be avoided:
  - (a) Positions with covered approaches from the flanks (the enemy might slip in on you).
    - (b) Prominent landmarks because they draw fire,
  - (c) Positions on the skyline or which silhouette you against a contrasting background.
- b. A listening post (LP) is a position, usually at the forward edge of the friendly area, from which you listen and observe at might and during other periods of limited visibility. A listening post is a type of observation post and should be selected to provide the same features.
- c. Observation posts and listening posts should be within small arms range of friendly personnel (460 meters). Italio or wire communication with your unit must be provided to anabic you to report information promptly.

#### 15. Navigation

- a. Locating Yourself.
  - (1) Proper use of e mep and compass is the best way to determine where you ere. FM 21-26 explains how to orient a mep and compare it to the terrain it represents, both with end without e compass.
  - (2) If you do not have a map, you must locate yourself by recalling the terrain features you have pessed and those you can see.
- b. Finding and Maintaining Direction.
  - The compass is your best means of finding and maintaining direction. See FM 21-26, Army Subject Schedule 21-21, "Land Navigetion."
  - (2) The sun, North Star, Constellation Cassiopeia, and Southern Cross can be used to find the direction of north (pers. 22 and 25). After finding north, you can orient yourself and move in the desired direction by remembering, as you face north (360°):
    - (a) Northeast (45°) is to your right front.
    - (b) East (90") ie to your right.
      (c) Southeast (185") is to your right rear.
    - (d) South (180°) is to your reer.
    - (e) Southwest (225°) is to your left rear.

      (f) West (270°) is to your left.

      (g) Northwest (315°) is to your left front.

- c. Aids to Navigation. There are many other navigational alda. Use all aids available to check and doublecheck, to insure you know where you are and where you are going.
  - The location and direction of flow of principal streams.
     Hills, valleys, and peculiar terrain features such as
  - swamps and barren areas.
    (3) Railroad tracks, power lines, roads, towns, and other
  - manmade objects.
  - (4) The fire of machineguns, mortare, or artillery.
    - (a) If you know the general location and direction of fire of machineguns, you may be able to use these fires to orient yourself.
    - (b) Mortar and artillery rounds fired on known locatione can guide you or help you orient yourself.
  - (c) These fires can be arranged before you leave, or called for if you have communication.

#### 16. Selecting and Following Roules

- o. You may be directed to follow a certain route; your mieston may require it, or you may select your own. So far as your orders and mieston permit, salect routes avoiding known enemy positione and obstacles, offering the most cover and concealment, and permitting quiet movement. Take advantage of the more difficult terrain.
  b. Study mans, nerial photos, or sketchee and memorize your
- route before you start. Note distinctive features (hills, straame, swamps) and their location in relation to your route.

  c. Plan an alternate route to use in case you can't use your
- primary route.
- d. As you move along your route, observe the terrain. Mentally check off the distinctive features you noted in planning your route so you are oriented at all times.
  - (1) Avoid open areas.
    - (2) Avoid moving along ridges. Move along the slope below the ridge to pravent ailhouetting yourself.
  - (3) Avoid chatacles which may be mined, boobytrapped, or covered by fire; for example, draws leading into enemy areas, ditches uear enemy areas, wire entanglements, and road obstructions. Move around them if possible. If you must pass an obstacle, investigate it througher.

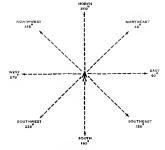


Figure 9. Face north and recall these directions.

#### 17. What to do If Last

If you lose your way, do not continue until you have reoriented yourself with respect to the immediate terrain, the enemy, friendly forces, and your mission. Keep calm and think the situation over.

a. Establish north by compess or by one of the methods covered in paragraphs 22 and 26. Orient your map and pick out prominent terrain features. If you are able only to orient yourself to a general area, travel in a cardinal direction (north, south, east, or west) toward an easily recognizable manusado or natural feature such as a main road or a river. Use this feature to locate yourself or follow it until you have your position pisponinted.

b. If you do not have a map or compasa, establish the direction in which you were traveling with reference to the aun, mon, or easily identifiable terrain features. Mentally retrace your route, recalling hills, traits, atreams, and other terrain features you passed. Then go back in the direction from which you came until you are able to orient yourself.

- c. Look and listen for signs and sounds of troops, artillery, vehicles, and small arms fire. Seek the assistance of friendly troops if any are in the area.
  - d. As soon as you are reoriented, continue your mission.

#### 18. The Challenge and Password

- a. Do not allow unidenlified personnel to closely approach your position. Halt and identify them before they are close enough to be a danger to you. This precaution is very important at night and during other periods of poor visibility such as heavy fog.
- b. Hait and identify personnel by proper use of the challenge and password. When you see or hear someone approaching, call "Italt!" Speak clearly and just load enough to be distinctly underscool. Keep him covered and do not expose yourself. When he halts, ask in a low, clear voice, "Who is there?" He should reply in a low, clear voice, eiving the answer which best identifies him. For example, "Sergeant Jones, accound spand," or "Friendly partrel leader," You then any, "Addynes one man to be receptized." Continue to keep him cowered without supposing yourself. Halt him two or three meters from your position. In a low, clear voice give him the challenge, for example, "Beston." He should answer with the password, for example, "Beston." He should answer with the password, for example, "Beston." He should answer with the password, for example, "Beston." He you arm not completely satisfied, question him further. Ask questions only a friendly person would be likely to know.
- c. Other men with him, such as members of a patrol, must also be identified. This can be done in two ways. Your commander should prescribe the method to be used in your unit.
  - The leader can vouch for the others and pass them to the flank of your position. This method reduces movement and noise at your position, and helps prevent revealing your location to the enemy.
  - (2) The leader, or his representative, can identify each man as he passes, notifying you when the last man has passed.
- d. The challenge and password are usually changed every 24 hours. Be sure you know the current ones.
- c. The regular challenge and password should not be used outside friendly area. Partos, for example, should use a different challenge and password for recognition within patrols and between partols operating in the same general area. Words can be used in the same manner as the regular challenge and password or a numbers system can be used. For example, the challenge is a number; the password is the number which, added to the challenge independent of the challenge is the password in the number. If the prearranged outputs.

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Figure 10. A challenge and password are used for recognition.

ber is 13, the challenge is any number between 1 and 12. The password is the number which, added to the challenge, equals 13. Only odd numbers should be used as the prearranged total. If even numbers are used, such as 10, someone may challenge with 5; an enemy, upon being challenged, may repeat the number spoken and be passed as having been identified.

f. The principle to remember is that a means of recognition must be established and must be properly used.

#### 19. Reporting Information

ACO TONSER

Your leaders need prompt, accurate information on which to

base plans and decisions. All information is important. See chapters 4 and 5.

#### 20. Silent Weapans

It may be desirable to kill, atun, or capture an enemy soldier without alerting other enemy in the area. The bayonet garotte (choke wire or card), and homemade clubs are some of the weapons used for these purposes. FM 21-160 explains their use. Whether day or night, the successful use of silent weapons requires great skill, not only in their use, but also in quick, careful movement.

#### 21. Movement

- a. Follow these general rules to move without being seen or heard by the enemy:
  - Prspare yourself and your equipment.
     Camouflage yourself and your equipment.
    - (b) Tape your identification tags together and to the chain
    - so they cannot slide or rattle.

      (c) Tane your weapon swivels and keepers to prevent noise
    - and suagging.

      (d) Pad or tape loose items of equipment.
      - (a) Factor tape loose teems of equipment.

        (c) Wear soft, well-fitting ciothing. Starched clothing swishes as you may and loose, bargy clothing may

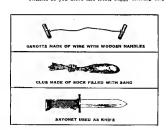


Figure 11. These weapone make no noise.



Figure 12. Prepare carefully for movement.

ang on brush. Use the thigh ties on the field trousers to take up slack and the ankle ties when you do not blouse the field trousers. No other tie-downs should be used at any time. They may interfere with circulation in the legs and feet. In cold weather, poor circulation may lead to frostbite or other cold injury.

- (f) Wear a soft cap, with its less distinctive outline, unless required to wear the helmet. The helmet may muffle or distort sounds, especially if there is a slight breeze.
  (g) Do not carry unnecessary equipment. You cannot
- (g) Do not carry unnecessary equipment. You cannot move rapidly when weighted down.

  (2) Move by bounds that is, short distances at a time. Halt.
- (2) Move by bounds; that is, short distances at a time. Helt. Listen. Observe. Then move again.
- (3) Look for the next apot where you will stop before leaving the concealment of one position. Observe that are carefully for enemy activity. Select the best available covared and concealed route to the new location; take advantage of darkness, fog, smoke, or haze to assist in concealing your movement.
- (4) Change direction slightly from time to time when moving through tall grass. Moving in a straight line caussa the grase to wave with an unnatural motion which attracts attention. The best time to move is when wind is blowing grass.
- (5) Remain in position and observe briefly if you alarm birds or animals. Their flight or movement may attract the enemy's attention.
- (6) Take advantage of the distraction of noises.
- (7) Cross roads and trails where there is the most cover and concealment. Look for a large culvert, a low spot, or a curve. Cross quickly and quietly.
- (8) Follow the furrows as much as possible when crawling across a plowed field. When you must cross the furrows, look for a low section in the field; crawl down a furrow to that section, and make your cross-furrow movement.
  (9) Avoid steep shows and areas with loose stones.
- (10) Avoid cleared areas to prevent being allhouetted.
- b. The rush is the fastest way to move from one position to another. To rush-
  - (1) Start from the prone position (1, fig. 13).
  - (2) Slowly raise your head and select your next position (2, fig. 12).

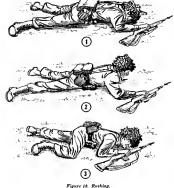


Figure 13. Rushing.

- (3) Slowly lower your head. Draw in your arms to your body, keeping your elbows down, and pull your right leg forward (3, fig. 13).
- (4) With one movement, raise your body by straightening the arms (4, fig. 13).
- (5) Spring to your feel, stepping off with the left foot (5, fig. 13).
- (6) Run to the new position, using the shortest route (6, fig. 13).
- (7) Just before hitting the ground, plant both feet (7, fig. 13).

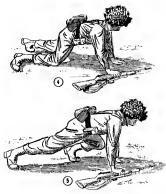


Figure 13-Continued.

- (8) Drop to your knees, at the same time stiding your hands to the heel of the rifle butt (8, fig. 13).
  - (9) Fall forward, breaking your fall with the butt of the rifle (9, fig. 13).
- (10) Shift the weight of your body to your left side, With your right hand, place the butt of the rifle in the hollow of your right shoulder; then roll into a firing position (10 and 11, fig. 13).
- (11) Lie as flat as possible. If you think you were observed by the enemy, move to the right or left if cover and concealment exist.



Figure 13-Continued.

- c. There are times when you must move with your body close to the ground to avoid being seen. There are two ways to do this, the low oraset and the high crust. Use the method best suited to the conditions of visibility, cover and conceatment available, and sneed required.
  - Use the low crawl when cover and concealment are scarce, when visibility permits good enemy observation, and when speed is not essential.



Figure 13—Continued.

(a) Keep your body as flat as possible against the ground. Grasp the rifle sling at the upper sling swivel. Let the balance of the rifle rest on your forearm and let the butt of the rifle drag on the ground. Keep the muzzle off the ground (1, fig. 14).

(b) To start forward, push your arms forward and pull your right leg forward (2, fig. 14).

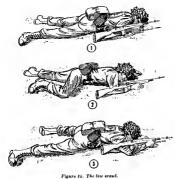




Figure 13-Continued.

- (c) To move forward, pull with your arms and push with your right leg.
- (d) Change your pushing leg frequently to avoid fatigue (3, fig. 14).
- (2) Use the high crawl when cover and concealment are available, when poor visibility reduces enemy observation, and when you require more speed.
  - (a) Keep your body free of the ground and rest your weight on your forearms and lower legs. Cradle the rifle in your arms, keeping its muzzle off the ground. Keep your knees well behind your buttocks so it stays low.
  - (b) Move forward by alternately advancing your right elbow and left knee, left elbow, and right knee (fig. 15).

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d. Use the methoda explained below when extremely quiet movement is necessary, such as when you are very near the enemy. These movements are very allow and tiring and require great patience to perform properly.

 Walking (fig. 16). Make your footing sure and solid by keeping your weight on one foot as you step. Raise your other leg high to clear brush or grass. With your weight



Figure 15. The kigh crawl.

on the rear leg, gently let your foot down toe first. Feel with your toe to pick a good apot. Lower your heel after finding a solid place. Shift your weight and balance to your forward foot. Short steps must be taken to avoid losing your balance. At night, hold your wespon with one hand and extend the other forward, feeling for any obstructions as you move.

(2) Going into the prone position (fig. 17). Crouch alowly, Hold your weapon under your arm and feel for e clear apot with your weight on your free hand and opposite knee. Raise your free begup and back, and lower it to the ground, feeling with your toe for a clear apot. Roll gently into the prone position. If you are discovered by the enemy, so into the prone position rapidly (8, 8, 10, and 11, fig. 13).



Bole a Abbreach strain and

(3) Craviling (fig. 18). The low crawl and high crawl are not suitable when you are very near the enemy. They make a shuffling noise which is loo easily heard. Crawl on your hands and knees. Lay your weapon on the ground by your side. With your right hand, feel for or make a clear spot for your knee. Keep your hand on the spot and bring your right knee forward until it needs your hand. Clear a spot with your left hand and move your left knee up in the same way. To move your weapon, feel for a pleec, clear it, and lift the weapon into position. Crawl very slowly and keep your movements absolutely signt.

Figure 16. Toe first and gently.

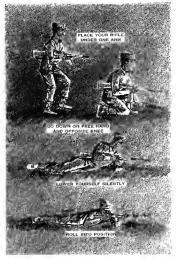


Figure 17. Feel for the ground.



Figure 18. Crawl slowly and silently.

#### Section III. DAY COMBAT

#### 22. Finding Direction

If you do not have a compass, you can use your watch and the sun to find approximately true north (fig. 19). See FM 21-26.

a. In the North Temperate Zone, with your watch set on standard time, hold the watch face up in your hand or place it on a flat surface. Turn it until the hour hand points directly at the sun. To be sure you have pointed the hour hand correctly, hold a small stick vertically beside the watch at the end of the hour hand. Turn



- I POINT THE NOUR NAND AT THE SUR BY PLACING
  - A LINE FROM THE CENTER OF THE DIAL PASSIN HALFWAY BETWEEN THE HOUR HAND AND I



- FOINT 12 O'CLOCK AT THE SUN BY PLACING WATCH SO THE SHADOW OF THE STICK FALLS ALONG 12
- 2 A LINE FROM THE CENTER OF THE DIAL PASSING HALFWAY DETWEEN THE HOUR WAND AND 12 O'CLOCK IN THE SMALLER ARC POINTS NORTH

Figure 19. Watch and sun method of determining direction.

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the watch until the shadow of the stick falls along the hour hand. Without moving the watch, divide the smaller angle between 12 o'clock and the hour hand into two equal parts. An imaginary line from the center of the watch through this half-way point on the edge of the watch points south; the opposite direction is north.

b. In the South Temperate Zone, with your watch set on standard time, place the watch on a flat surface and turn the watch so 12 o'clock points directly at the sun. Without moving the watch idvide the senalter angle between 12 o'clock and the hour hand into two equal parts. An imaginary line from the center of the watch through this half-way point on its edge points north.

#### 23. Searching Terrain

Visually search terrain in two steps.

- a. Make a quick overall search for obvious targets and unnatural colors, outlines, or movements.
  - Look straight down the center of the area you are observing, starting just in front of your position.
    - (2) Raise your syes quickly to the maximum distance you wish to observe.
  - If the area is wide, further subdivide it as shown in figure 20.
- b. Next, cover all the area, as follows, first searching the ground nearest you:
  (1) Search a strip 50 meters deep, looking from right to left
  - parallel to your front.
    (2) Search from left to right over a second strip farther out,
    - but overlapping the first strip, (3) Continue in this manner until you have studied the entire
    - area (fig. 21).

      (4) When you see a suspicious apot, stop and search it very closely.

#### Section IV. NIGHT COMBAT

#### 24. Movement

You must usually move more quietly at night than in day. Here are some general rules to help you:

are some general rules to help you:

a. Move around thick undergrowth, dense woods, and ravines.

Your field of observation is reduced and it is difficult to move

b. Move as quickly as circumstances allow, but avoid running if possible. You may fall or make unnecessary noise.

quietly.

Figure 20. Make a quick overall search,



Figure 21. Then search the terrain in overlapping strips.

## 25. Finding Direction

If you do not have a compass, there are other methods you can use to find direction.

- a. The North Star shows you true north in the Northern Hemisphere and is accurate all year round. To find the North Star, look for the Big Dipper (fig. 22). The two stars at the end of the bowl are called the pointers. Look in the direction water would pour from the dipper. In a straight line out from the pointers (at about five times the destance between the two pointers) is the North Star. Remember, the Big Dipper rotates alonly about the North Star and will not always appear as shown in the
- b. You can also use the Constellation Cassiopeia to find the North Star. This group of stars is shaped like a lopsided M. The North Star is straight out from the bottom point of the M about the same distance as from the Bir Dipper.



Figure 22. Localing the North Star.

- c. South of the equalar, use the Southern Cross to find direction. There is no prominent last ro indicate south, but you can find the approximate direction by measuring straight out from the fact of the cross a deliance five lines the length of the cross itself. This immultary point is the general direction of south. The stars of the long axis of the cross are the pointers (fig. 23).
- d. You can arrange for, or call for, flares to be fired over a known pushtion. When one is fired, orient yourself quickly tensuses three drift with the wind. You can also request that tracers be fired on a certain azimuth at a specified time (a) to will be lietermining yam posillon/direction.
- e. The field artillery searchlight can be used to indirate direction. The beam can be hid on prearranged azimuths or it can be used to illuminate specific points.

#### 26. Security

- Keep all light concealed. A common match is visible up to 16 kilometers (10 miles).
  - Know and use the challenge and password (par. 18).
  - c. Rotate watch and rest periods when someone is with you.

#### 27 Action Under Flores

a. Hit the ground if enoght in the open by an overhead flare (fig. 24). The burst of light is temporarily blinding and may prevent you from being seen, If you hear the three being fired, get down before it bursts. Resume movement as soon as the three burses out.



Figure 23. Lucuting south by the Southern Cross.

b. If caught in the light of a ground flare, move out of the lighted area quickly and quietly. Keep moving until you are well away from the area.

c. If eaught by a flare when crossing an abstacle such as burbed wire, crouch low and stay still until the βare burns out.

#### 28. Passing Obstacles

At night, as in day, avoid obstacles whenever possible (par. 16). If you cannut bypass them, investigate thoroughly, moving slowly and cautiously. Do not pass through obstacles protected by anti-personnel mines if at all possible. Bypass the obstacle or nse another route.

- a. Every army uses barbed wire obstacles—double apron, four strand, high wire fences, and concerlinas. Stay low when approaching wire. Silhouelte the wire against the sky and figure out its design. Frequently enemy positions are located in proximity to wire obstacles.
  - If not mined, you may be able to pass over the wire (fig. 25).
  - (a) Grasp the first strand lightly and cautionsly lift one leg over. Lower your foot to the ground, feeling care-



Figure 24. Hit the ground when an overhead flare bursts.

- fully for sure footing. Lift your other foot over the wire, Quietly release the wire and feel for the next strand. Cross it in the same manner.
- (b) You may be able to pass over wire by putting a wood or grass mat or chicken wire netting over it. Cross slowly because such a mat or net forms an unstable nath.
- slowly because such a mat or net forms an unstable path.

  (c) Loose wire or a concertina can be crossed by one man placing himself prone on the wire. He becomes a
- (2) It is often best to go under wire (fig. 25) because you do not expose yourself as you cross over it. Go through head

bridge over which the other men walk.



Figure 25. Go over or under wire cautiously.



Figure 26. When cutting wire, deaden the sound with cloth.

first. Slide under the bottom strands on your back, using your heels to push yourself forward. Inch your way along, holding the wires up with your hands. Feel ahead as you move—there may be low strands or trip wires. Carry your weapon lengthwise on your alomneh to leave your hands free. Do not pull or jerk on the wires.

you'r fantos tree. To no quinto rere on the wires, (E. 26), cut only the lower strands and leave the top wire in place. This makes it harder for enemy to discover the gap. Cut the wire near a picket. When someone is with you, have him look if the wire with the wire with other hands. Wrap cloth, such as ritle patches, around the wire and cut between his hands. Quietly beat back the loose each, and the wire his hands. Quietly beat back the loose each of the loose of the

b. Your route may be blocked by wide ditches and intrenchments. If so, climb quietly and carefully down one side and up the

other. If the diftch or trench is narrow, you may jump across lits Select a point some distance from a juaction with a counciling trench, crawl up to the edge, and cautiously look in. Be sure you have firm and quiet footing on both sides. Rise and jump across. Land on one foot and drop quietly to the ground. Lie still for a moment. Listen before you rise and go on.

c. Be alert for other types of mines and avoid them whenever possible, even if it means going a considerable distance out of your way. Routes of approach, ditches, and the banks of atreams are frequently mined and should be cavefully decked, if you must pass through an area which has been mined, use extreme caution and work your way through shouly. Use your hands to detect righ wires and probe gently with your bayonet for buried mines. For additional information on mines, ace FM 20-32.

#### 29. Firing

- a. The technique of night firing le a pointing method looking over the top of the barrel withy our head held high and both so open during all conditions of viability. Under conditions of verythigh illumination, the mass of the sights may be seen well enough to improve your allnement. Reference FM 23-71, Rife Marksmanhib Course. Trainfired.
- b. You may be able to locate enemy positions by having one or two men move off to one side and fire a few rounde to draw the enemy's firs. The enemy may use the same technique against you. Do not fall for this trick. In a defensive situation, fire when you detect the enemy, whether has infring or not. In an attack, fire only after the enemy detects and fires at you unless you receive other orders.
- c. Use hand grenades where possible. Their radius of burst makes them effective against uncertain targets and they do not disclose your position.

#### Section V. NIGHT VISION

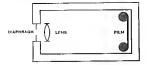
#### 30. You Can See of Night

You can see much more is the dark than you realize. However, to take maximum advantage of this ability, you must understand how your eyes are constructed and how to use them to see best under conditions of poor visibility.

## 31. Your Eyes Are Like a Comera

Certain parts of your eyes correspond to parts of a simple camera (fig. 27).

- a. The lens focuses light entering the eye just as does the lens of a camera.
- b. The iris corresponds to the diaphragm of a camera, opening and closing to regulate the amount of light entering the eye through the pupil.
- c. The retine corresponds to camera film. Light rays strike the retina, form an image, and cause an impression to be transmitted to the brain through the optic nerve. The brain tells us what we see. In a camera, the image is formed and fixed on the film.



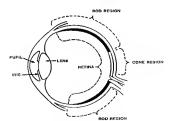


Figure 27. Your eye is like a camera.

#### 32. Day and Night Eyes

The retina is composed of cone cells and rod cells, so-called because of their shapes.

a. Cone cells enable you to see color, shape, and sharp contrast A great deal of light is required to activate them and they are blind during periods of tow illumination. For this reason, they are blind during periods of tow illumination. For this reason, they are your day eyes. The cone cells are concentrated in the cone region, directly behind the lens, and decrease in number with distance from the center of the cone region.

b. Red cells produce a chemical substance called risual purples which makes them active in darkness or periods of low illumination. They are your night eyes, Rod vision enables you to distinguish black, white, and shades of gray and to distinguish general outlines. Most of the rod cells are in the area of the retina around the cone region. A few are in the cone region. A few are in the cone region.

## 33. Seeing at Night

Using your syes affectively at night requires the application of the principles of night vision—dark adaptation, off-center vision, and scanning.

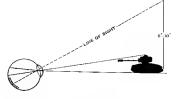
a. Dark adaptation means silowing your eyes to become accustomed to low levels of illumination. It takes about 80 minutes for the rod cells to produce enough visual purple to activate them and enable you to distinguish objects in dim light. This may also be accomplished by atsying in a red-lighted area, or by wearing ed goggles for 20 minutes, cliowed by 10 minutes in darkness (to allow the pupils to open wide). This method may save valuable time by allowing you to be in lighted area to receive orders, check equipment, or perform some other function before moving into darkness.

b. Off-center vision is the technique of keeping your attention focused on an object without looking directly at it. When you



LOUK DIRECTLY AT THE OBJECT SO THAT THE IMAGE IS FORMED ON THE CONE REGION (YOUR DAY EYES)

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LOOK SLIGHTLY AWAY FROM THE OBJECT SO THAT THE IMAGE IS FORMED ON THE ROD REGION LYOUR NIGHT EYES!

Figure 29. Night vision.

look directly at an object, the image is formed on the cone region (fig. 2e) which is not sensitive at night. When you hook slightly to the left, right, above, or below an object, the image is formed on the area of the retina containing rod ceils which are sensitive in darkness. The most sensitive area varies in inhividuals, but usually is found by looking six to ten degrees away from an object (fig. 2e). In effect, you look out of the corner of your eye.

c. Samanja ja using of-center vision to observe an area or an object. When you have red vision, he visual purple in the rate cleal being used being used bleaches or blecks out in four to ten seconds and the object observed using house he wisual purple in the rate cleal in one area bleaches on blecks only you must shift your eyes slightly so fisch rot cells are used. More your eyes in short, shruppi, irregular movements over and around your target, as shown in figure 30. Concentrate your mittellion on the target, but do not look lirectly at it. Panse a few seconds at each point of observation because your even cannot see while in motion.

## 34. Factors Affecting Night Vision

Visual purple is chemically related to vitamin A, and a serious lack of vitamin A impairs your night vision. However, excessive amounts of vitamin A will not necessarily improve your night vision. Colds, headaches, fatigue, narcoties, heavy smoking, and



Figure 30. Sean at night in short, abrupt movements.

excessive use of alcohol reduce your ability to see at night. Exposure to bright light for extended periods impairs both day and night vision.

#### 35, Preserving Night Vision

Night vision is quickly nestroyed if bright light is allowed to enter the eye. If this cannot be avoided, such as when you must center a lighted area or observe in a lemporarily lighted area, those and cover one eye to preserve the night vision in that eve. When the light gues away, are you feave the lighted trace, the night vision retained by your partected eye enables you to see until the other becomes tark sharted usain.

## 36. Confidence

Cus fidence is very important. You assually use your even where there is plenty of high is you are used to sharp outlines and bright colors. In darkness, objects are faint, have no sharp suffices, and little or no color. You must believe what your eyes tell you, Gain confidence by faithful practice in using the principles of night vision.

# CHAPTER 3

#### Section J. ACTIVE MEASURES

#### 37. Take Active Measures

- a. A boxer partially protects himself by using Itia hunds and arms to ward off blows and by using his feet to move around to deceive and evade his opponent. He gets even more protection by attacking his opponent, by aggressively boring In—keeping him off balance and so busy defending that he cannot fight back.
- b. The harder you hit the enemy on the battlefield, the more protection you have. Your means to destroy the enemy are also your means of self-protection. Do correctly what you have learned in the individual Training of the combat Soldier and you automatically leave reat collective and individual protection.

#### 38. Active Individual and Unit Protective Measures

- n. Aggressive Spirit and Teamwork.
  - (1) Aggressiveness. Aggressive action by you and your fighting team tends to catch the enemy off guard and lessens his changes to plan and oreners to deal with you.
    - (2) Versatility. React quickly and effectively to any new method or lechnique the enemy develops. Learn to expect inflavorable conditions and be prepared to deal with them.
    - (3) Teamwork. Strive to improve and develop your skill and add to he skill of your team. A team is only as effective as its individual members. Learn the jobs of other members of your team and be prepared to substitute for them at any time. Have confidence in your ability, the skilly of your team, and your equipment. Remember, success on the battlefield is like direct result of a well-trained and project your ability of your team of the young team of the property of a well-trained and project your distributed team.

#### b. Fiving Positions.

Selection of positions. Before you move forward, pick the
best cover available and select your position. The position
should give you a good firing position, enable you to fire

- readily, and provide you with the maximum cover and concealment. Your fire helps to keep the enemy fixed. When you do not fire, the volume of fire from your unit is reduced and you lose the protection it provides. See paragraph 8 and figure 4.
- (2) Firing from covered positions. A covered firing position not only gives you protection, but also gives you an opportunity to increase the occuracy and volume of your fire. Learn to fire from verious covered positions while exposing e minimum portion of your body. The less the enemy sees of you, the less chance he will have of hitting you.

## c. Maintaining Contact and Communication.

- (1) A buttlefield is often a scene of isolation. Nothing seems to move and there are few signs of articin. You may feel that you, too, are isolated if you cannot see the other members of your speud or unit. Know the location of, the men around you end the position of your unit leader. Know what they are doing. You fight better when you you lose coater, think clearly and re-establish contact with your unit as quickly as possible.
  - (2) Know and use the identification or recognition system established in your unit.
- (3) By maintaining contact, you davelop a feeling of unity with those around you, it is possible to keep in contact by aight alone, but talking to people around you is sometimes best. The sound of e human yoic increases your sense of accurity and adds to your confidence. You hearn their situation and their intestions, and they learn yours. He very careful in talking. The sound of voices may enable the enemy to foother your position.
- (4) When your presence or the presence of your unit is nu-known to the enemy, pass on commands by whispering. In doing so, expel e portion of your breath and whisper into the other man's ear. If the enemy discovers you, pass on all orders in e normal tone of voice. At such a time, speed is essential and clearly understood orders are necessary.

#### d. Weaknesses of Enemy Tanks.

(1) The presence of enemy tanks presents a real and psychological threat, but they have definite limitations which make it possible for you to destroy them. The tank's sbillty to maneuver is limited in built-un areas, defice.

- swampy and mountainous country, and forests; and during darkness, rainy weather, and in heavy snow. Individual tanks not protected by infantry or other tanks, are ideal targets for tank-hunter teams. Having relatively thin armor on the shlea, rear, and luttom, they are extremely valuerable to fire from these directions.
- (2) Small arms fire on a tank forces it to "button up." This limits visibility and imanevershility. Thinks have blidd spots, especially in the sides and the rem when hattomed up. You can move in under the cover of fire from your mit to take advantage of these blind spata and to camboy your antitank weapons against the sides or rear. Yan may knock them out or humobilities them by phecing explosives on or between their tracks. Once the tank is incompleted to the complete the control of the complete the com
- e. Supporting Fires, Fire Superiority, Movement, and Assault.
  - (1) Supporting free. Fires from artillery, recoilies riles, mortars, and other supporting weapons also pravisly wan protection. They neutralize the fires of enemy supporting weapons and keep enemy frough from firing int you. Move forward under tha protection of three free, bed do not expect them to do your job. He presured to adjust supporting firest fy you have communication with them. Often you may be in a better position to observe the strike of supporting fires than the observer for those weapons. Your ability to communicate with supporting units and adjust their fires do to their effectiveness. Your fire is needed also. It is under the protection of all fires together that you close with and kill or counter the enemy.
  - (2) Fire superiority, The more accurate your fire, the loss chance the enemy has to fire back. If your bullets are hitting the enemy or cracking near his ears, he is less that the enemy are rasked his ears, he is less that you weapon skillfully to produce, along with others near you, we you weapon skillfully to produce, along with others near you, we as heavy obtune of accurate fire. When this volume of it extends fire. When this volume of the state of the first the enemy, inflicts casualities, or causes him to ceases him to cause the first that the state of a saketh his fire, you have this fire superfority, maintain it; it protects you by preventing the enemy from firm accurately at you.

- (3) Morement. Fire superiority and movement go hand-inhand. When you move forward continuously, rapidly, and aggressively, you suffer fewer casualties. You catch the suemy by surprise and in a dazed condition from your supporting fires. The fire superiority your unit builds up protects you as you move forward. Look for ground ahead of you from which your fire will be most effective. Move so you can get close to the enemy and fire with increased effectiveness. Sometimes the very act of moving gives you protection, since the enemy often adjusts his fires on the spot where he last saw you. If you have moved from an area, his fire in that spot cannot burt you. If you are caught in mortar or artillery fire, the surest way to get out of it is to continue your advance through or around the impact area. The anemy cannot adjust his fires as quickly as you can move. Furthermore. a rapid advance shorters the time you are exposed and lessens your chances of being hlt,
- (4) Assaulf. When the fires of the attacking echolons have eliuninated or neutralized effective enemy fire, assaulf fire techniques are employed. You close with the enemy, moving rapidly, fire well-directed shots either from the shoulder or underarm position at locations in your zone of advance that could conceivably contain an enemy. Whan the enemy exposes himself or a definite largest appears, you must fire a well-directed abia. Regardless of whether you fire from the shoulder or underarm position, it usually will be necessary to pause in order to insure a well-directed abic. This phase of the assault is characterized by the volume and accuracy of fire and violence of accion. It is designed to kill and themoraliza the enemy accion. It is designed to kill and themoraliza the enemy accion.

#### Section II. PASSIVE MEASURES

## 39. What You Must da to Prolect Yoursalf

a. You May Stay is One Position for Some Time, It your unit is halted for an extended period, protect yourself against enemy action. Keep abreast of the situation and pass on all information you receive. Prepare positions which protect you against air, ground, and CBR attacks. Use all techniques of camouflage and concealment during daylight hours as well as at night. Keep equipment issued for the construction of positions in first-class.

condition; turn it in for exchange if it becomes unserviceable, Avoid being caught short due to negligence on your part.

## b. Role of the Indivdual in a Particular Operation.

- Security. Security prevents surprise and permits freedom of movement by members of your unit. Establish security immediately.
- (2) Construction. Begin the construction of your position as soon as possibla, whether in an assembly area or kor-converted the position. The improvement of your position continues until your until leaves the area. Securily may require you to los great deal of work on your position during hours of darkness.
- (3) Coordination and communication. Check with the men on your right and left, Exchange information with them, Be sure to assist them and arrange for them to assist you, Coordinated efforts help to accomplish your mission.

#### 40. Fighting Emplacements

a. Techniques of Digging In, Comstruction, Concealment, and Improvement.

- (1) Disping in. Start digging in whan the situation requires it, and teke edwantage of ell eveilable natural cover. You are required to be ready to fight at any time; therefore, prepare your position on you can occur your natigned area with your weapon. Dig in properly and your position becomes more than a means of protection—the becomes a fighting position from which you can perform your job.
- (2) Construction.
- (a) Equipment. The first etcp ine good plan for constructing a position le e consideration of your tools. What tools are required and what are available? An introduction to the construction of the constr

- (b) Concentment of fresh soil. The plan for your position must include some way to dispose of the soil. Use part of it is make a parapet or ridge of carth around your position. First, slice off the top soil and grass and set it aside. Then with the fresh soil build a parapet all around the position 15 centimeters high an about a meter while (a feet). This purpose will provide all around the position 15 centimeters high contract of the cont
- (c) Drainage. Provide for drainage by sloping the bottom. of the hole so water flows to a place where it can be balled out with a helmet. In 1- and 2-man foxholes or in cave holes, die a sump for drainage-a small hole at the bottom of the position about 60 centimeters (2 feet) long, 45 centimeters (18 inches) while, and 30 centimeters (1 foot) deep. Slope the bottom of the sump. Drainage is easy in sandy soil but not in clay. In a rain, creek banks and low level ground will floud; avoid these areas if possible. A spot with a gentle slope is best. Dig a trench around your position on the uphill side to carry surface water away. In building the parapet, make the inner edge higher than the ground. From the inner edge it slopes outwardly toward the ground. Finally, when building overliend cover, include any waterproof material you can finilsheets of metal, doors, roofing paper, or your shelter half.
- (3) Camoufage. A continuous step in building any position is to hide it. When possible, do most of your work at night, avoiding movement and noise. Make a camoulings cover for your position (fig. 22), using natural material. Cover all of the open part so the hole does not show up as a dark stock (see 2).
- (4) Improvement, Improvements consist of reinforcing, constructing storage space for ammunition, and constructing overhead cover; and later on, a place to sleep. Continue improvement until you leave the nosition.
  - (a) Reinforcing. Sandy soil is apt to cave anytime and almost any soil will eave in when wet. To prevent this, strengthen or revet the side of your position with cut.



Figure 31. Conceal fresh soil.

saplings (fig. 33). Such revetting requires an ux, a fut of saplings of about the same size, and something to drive them. Shell cases, ammunition boxes, or saudbags may be used for revetting. In a static situation or where revetting material is earce, perfabricated parts for revetment may be constructed to the rear of your position and moved in under cover of darkness.

(b) Assumatified, Construct a storage space to keep your ammanition and greaneds or, etcan, and results available. You may use old ammanition boxes for this purpose. By the whatever type container you use into the side of your position within easy reach. When the side of your position within easy reach. When the enemy attacks, annumition and greaneds are resultly available and serviceable. You may have only a few minutes in which to repel bis attack. An Instant and heavy volume of accurate fire may be the deciding factor.

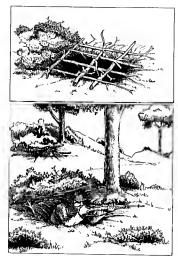


Figure 32. Camonflaged faxholes.

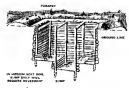


Figure 33. Cut-timber revetment,

- (c) Cover. Your helmet gives some protection from enemy shells which explode in the eir, but you need more protection undar heavy fira. You get this protection by covering part of your position with et leest 30 centimeters (one foot), praferably 46 centimetera (18 inches) of logs, sandbags, rock, and dirt, in that order, If waterproofing le desired, place it between the sad and earth covering to prevent saturation of earth cover. Never use sandbage to support overhead cover. You can use any available material to make overhead cover, but keep it low and put topsoil over frash earth. Cover is increased as time permits, but must be such that it will not collapse. In fighting positions, give yourself maximum fields of fire and observation in the direction of the enamy. Cover only part of the position. using aandbags to keep dirt from falling between large logs (fig. 34). Time permitting, your covered position should include an adjoining open position which can be used at night or when the enemy launches his as-
- sault.

  (d) Sleeping quarters. Should you occupy a position for some time, it is necessary to construct some type of adjoining compartment for sleeping quarters. Your sleeping quarters should be similar to a prone emplacement, covered and adjoining your lightling position.

b. Hasty Positions. These are good for a short time because they give some protection from direct fire. If you stay in the area, they must be developed into wall-prepared positions.



Figure 34. Lag, waterproof paper, sandbage, stone over head cover.



Figure 35. A shallow trench.



Figure 36. Hasty positions in an open field.

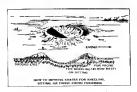


Figure 37. Crutera can be improved.

- Shallow trench. A shallow trench provides body protection when you first stop (fig. 35).
- (2) Shell erater. A shell crater can be quickly made into a hasty position (fig. 37).
   (3) Tannels. In bedgerow country or where there are dikes,
  - (3) Tannets. In hedgerow country or where there are clikes, levees, or embankments slig a tunnel through the bank and make an upening on the enemy side through which to fire (fig. 38). Leave as much undisturbed earth as possible over your tunnel for protection from tunk crushing action.
  - (4) Rocks, snow, and ice. Pile up rocks, chunks of ice, or pack snow to provide protection.



Figure 38. Firing position tunneled through a hedgerow (rear view).

- c. Types of Foxholes. Individual foxholes are used extensively, but the 2-man foxhole is more desirable as it permits one man to rest while the other acts as security. Usually the long side of the foxhole is parallel to the froatline.
  - (1) One-man forbote. If you are assigned an individual position, dig a 1-man forbote (fig. 39). "This type forbote is deeper thus a hasty position and can be well revetted, drained, and enmoutlaged. Dig a hole 50 centimeters (2 feet) wide by 107 centimeters (3½ feet) long. It should be at least 120 entimeters (4 feet) deep, but may be deeper for a tali man. Dig out another 45 centimeters (18 inches) to make a grounds sump similar to the one illustrated in figure 38. After the position is completely dug, low but make sure you can see to behot. Finelly, prepare a camouflage cover which can be used in the daytime and laid astice at night.
  - (2) Two-men foxhole. Teamed with another men, you can construct a 2-man foxhole in a hurry. When you have the position completed, one of you can atrack) out and rest or eleep while the other le alert and observing. Both of you can get in under the overhead cover during artillery fire. Camouflage thia cover I or daylight use. See ligure 40.

## d. Cave Holes and Prone Emplacemente.

- (1) Cave holes. In rough or snow-covered country, a cave gives good protection. These holes are hart to dig but easy to hide if you carefully conceal the soil you dig out. Be cure to dig a sump for drainage. Made the hadde jute large enough for you and your weapon. In enowbank caves, keep the firing slot small because it shows up black in the white snow. A small enough to the work is the warmest. In the white snow. A small enough with Made a must side or near entrance. See future 41.
  - (2) Prone Emplacemente. In rear areas and camps, a prone emplacement may be constructed to protect you from artillery and aircraft. Dig a trench 60 centinueters (2 feet) wide, 60 centimeters (2 feet) deep, and long enough to tie in (fig. 42). The position must be well camouflaged and close exough to be reached within a few seconds from where you are pormally located.

#### e. Clearing Fields of Fire.

(1) When you are on the offensive and in continual contact with the enemy, there is little opportunity to clear fields of fire. Advancing individual ritlemen and weapons

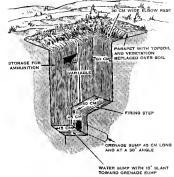
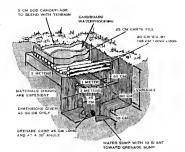


Figure 89. One-man foxkole.

crews must select the best natural positions available, and ordinarily you will have time to clear only the area in former and ordinarily. However, in preparing defensive positions for expected contact with the enemy, suitable fields of fire are cleared in front of each position. The following principles must be observed:

- (a) Do not disclose your position by excessive or careless clearing (fig. 44).
- (b) In areas organized for close defense, start clearing near your position and work forward at least 100 meters (110 yards).



Pigure 40, Two-man foxhole,

- (c) In all cases, leave a thin natural screen of vegetation to hide defense positions.
- (d) In sparaely wooded areas, remove lower branches of large scattered trees.
- (e) In heavy woods, complete clearing of the field of fire may neither be possible nor desirable within the time available. Restrict work to thinning undergrowth and removing lower branches of large trees. Clear narrow tanes of fire for automatic weapons (fig. 43).
- (f) Remove or thin dense brush. It is never a suitable obstacle and obstructs the field of fire.
- (g) Cut weeds only where they ubstruct your view.
- (h) Drag away cut brush, limbs, and weeds to points
  where they wilt not be detected by the enemy or furnish him with conceatment.
   (i) Before charing the fields of fire, you should make a
- careful estimate as to how much clearing can be done

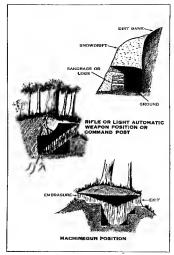


Figure 41. Types of cave holes.



In the time available. This estimate often determines the nature and extent of the clearing to be undertaken, since a field of fire improperty cleared may afford the enemy better concestlement and cover than if you left the area in its natural state.

(j) Mow or burn grain crops, hay fields, and tall grass areas,

#### 41. Defense Against CBR Attack

There may be little or no warning prior to CBR (chemical, albibological) attacle loftene against such an adjainst such an attack begins with the individual. You must be prepared to protect the property overself through modification of your position, proper weak of protective clothing, proper use and care of your protective mask, such through rood samitation.

a. Modification of Positions. A foxhole deepened by at least 30 centimeters (1 foot) and provided with a 30 centimeter (1 foot) fire step and overhead cover gives you an excellent place to occupy during a nuclear attack. Cover any entrances or anertures with





IN LINE OF FIRE REMOVED ENEMY SURPRISED

Figure 43. Clearing fire lanes.

scrap cauvas ar burbap. Such a position gives you excellent protection against the blast, heat, radiation, and fallout of a nuclear explosion. This position also protects you from spray or droplets during a chemical attack; however, the protective mank must be used during and after such an attack. When the attack comes, sit down in your fortions and keep your fixed above. Remain in that down in your fortions and the pour fixed above, you must realize an enemy attack will foremently follower.

b. The Protective Qualities of Clothing.

(1) Any type of clothing gives you some protection during a





Pigure 14. Clearing fields of fire.

radiological attack. If possible, cover yourself completely with your boncho or shelter haif.

(2) Field uniforms can be chemically treated to protect you from vapors and fine droptles of hister agents. This is called impregnating (seaking with a protective material). However, impregnated techning does not offer protection against chemical agents in a liquid state. Any drops of nerve or bilster agents quickly go through impregnated clothing. A protective vesicant leather dressing ("dubbing") will be issued which helps make boots resistant to liquid chemical agents. This dubbing does not destroy or neutralize liquid chemical agents.—If only

- ilelays their penetration of leather. During a chemical attack, croach down and cover yourself completely with whatever is available; use your mask. When walking through areas where drops of chemical agents may have fallen on vegetation, wear your raincout or poncho to prevent these throps from reaching your clubthing.
- 6. Using the Protective Mask. Your protective musk is your protective musk is your most valuable term of defense during a CFR attract. If you must valuable them of defense during a CFR attract is properly it protects your face, eyes, and longs from all known to themical agents, ratheactive dust thring a micelar atlast, an inclear atlast, an inclear atlast, and biological agents during a biological atlast. This musk is sturily, but you can damage it by carebas hamiling.
- d. Sanitation. Should the enemy employ binloghed weapons, you can protect yourself somewhat by exercising good samitation measures and practicing good personal hygiene.
- c. Training, FM 21-40, FM 21-41, and FM 21-46 explain in detail all matter concerning your defense supin-tel sentinelli, it is alogical, and radiological weapons, too include effects of underweapons. Your CGBR training teaches you about its efforts, capabilities, and limitations, CGR training also teaches you may and care of your protective sentinents.

## 42. Enemy Propaganda

- a. What is Enemy Propaganda? Enemy propaganda is Information and ideas the enemy directs toward you with the inent of having you are in a way which will help thin. The enemy special workes things he have called the control of the enemy special works and worker things he have been called the enemy special control of the enemy artifact of the first the enemy artifacts of the propagant in the enemy artifacts in the enemy artifacts in the called the enemy artifacts into our areas, in valid brain casts, in field intuite solvers systems beamed toward you, and in rumons afactal the sensor accent.
- b. Purpose. The enemy uses propaganda to try to lower your morale and weaken your will to fight.
- e. Techniquer. The enemy uses many different propuguals techniques. It first to convince you that unless you surrender, you will be killed; and if you do surrender, you will be well breated. It teris to lower your morals and decrease your will to light by telling you your lealers are incompetent, or the civilians at home bave forgotten the Soldiers who are away on the fighting fronts. He starts rumors. You help his cause if you believe and spread these surmors. Some rumors are easy to believe because you moral to believe they are true. For example, the enemy will start rumors that you must be only to be relieved and sent home. If

you believe this rumor, your morale is lowered when you find it is not true. Other rumors are designed to create fear; still others stempt to create a feeling of hatred toward our allies or Soldiers of our own forces because of their race or creat

d. Defense. When you are well-trained and confident of your own ability and that of your unit, you are a poor larget for enemy propaganda. When you know the goals of your own country and those of the enemy and use your common sense and intelligence, you are able to detect the half-truths and lies in enemy proparands. Do not spread rumous when you read or heat enemy active interest in your unit information program helps you to defend yourself against enemy propaganda.

# Section III. HEALTH AND HYGIENE IN COMBAT

#### 43. Mantai Attitude

The way you think affects the way you set. If you know your job, you act puckly and effectively. If you are uncertain or doubtful, you healtate and may make wrong decisions. Positive thinking it is a necessity. You must enter combat with behouts confidence in your own ability to fight, in the training you have received, and in the officers and noncommissioned officers who lead you. You will feel better, and your life in the Army will have a sense of real purpose if you realize your unit exists for the best cause in the world—in protect your country, your family, and yourself. Furthermore, you are a needed and valuable part of a team. Always ask yourself, "How can I help my team accomplish its maken".

- a. Fear is a basic human emotion. It is both a mental and physical state. Fear is not shameful if you control fit. It actually helps by making you more alert and more able to do your job. Fear makes the pupils of your eyes enlarge, increasing your field of vision and enabling you to detect movement more easily. In addition, your breathing and heart actions are stronger. These reactions prepare your body for greater exertion and provide strength when you are tired. When you feel fear, control it and use it to telley you do vour job.
- b. Avoid letting your imagination run wild, Remember you are not alone. You are part of a team and there are other soldiers around you, even though you can not always see them. There are men on your right and on your left who know their jobs and who are helping you just as you are helping them.



Figure 45. Don't let your imagination run wild.

- c. Worry undermines the body, dulls the mind, and slows down thinking and learning. It adds to confusion and magnifies your troubles, causing you to imagine things which really do not exist. Your officers and noncommissioned officers will belp you if you have problems which are troubling you.
- d. You may be required to fight in any part of the world and in all types of terrain. Adjust your mind to accept conditions as you find them. Adapt yourself mentally and take prompt, positive action to overcome adverse conditions. You will find you can fight under almost any conditions.

### 44. Physical Efficiency and Resistance to Disease

- a. An athlete knows from experience be must keep his body in good shape. He avoids late hours and habits which will slow him down. He has pride in himself and his team. You must do the same. Your safety, your health, and your life depend un your physical condition.
- b. Your body processes are aluggish and your reactions shower when you are tired. You are more susceptible to sickness. Avoid futigue by taking mivaniage of your opportunities to rest. Do not wear elothing which binds or chafes the skin because it adds to fatigue and discomfort.
- 6. When you have the opportunity to rest, make yourself as accomfortable as possible. If you skep on the grount, amount out the dirt and dig a small depression for your hips. If you skep in a dust-in position, dig out enough soil so you can stretch your legs. Cramping interfares with circulation, causes sore muscles, and hinders the body rest processes.
- d. Maintain peak efficiency by observing good eating habita. It is important to eat an nearly balanced meals as possible. If you do not feel like eating a whole need, eat some of each itermpart of the much, part of the vegetables, and part of the bread. Kaep your eating utenalls and mess gear claan.
  - e. Heat your rations whenever possible; thay will tasta bettar.

## 45. Body Care Under Varied Climatic Conditions

a. Trench Foot and Immersion Foot.

- (1) In cold or wet weather, improper care of your feet may result in a condition known as trunch foot or immersion foot. When the condition is mild, the feet are pale and look shriveled; leter they lose all feeling. Still later, they swell and become very pointful. This is the dangerous stage. Cangrene may result and require amputation of the tons or wan the rains feed.
- (2) To guard against trench foot and immersion foot, fullow the simple rules listed below:

(a) Exercise your feet.

- (b) Keep your feet as clean as possible.
- (c) Keep your feet as dry as possible.
  (d) Put on clean, dry socks as often as possible.
- (e) Do not wear tight footgear or tight socks.

  (f) Remove your footgear and massage your feet.
- (3) it is especially important to exercise your feet in order to maintain circulation. When standing in mud for long

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Figure 18. Care for your feet.

perioda, wiggle your toea inside your shoes, rise on your toea, and bend and twist your ankles. Remove your shoes at least once a day and massaga your feet carefully and gently to stimulate circulation. Use plently of foot powder and put on thy nocks. You can dry wet socks by carrying them underneath your shirt next to your underwear.

- (4) Do not slow circulation by cramming on extra socks or by wearing tight shoes. If your shoes feel tight, loosen the laces. Wear loose clothing around the knees and calves of your legs.
- (5) You cannot always keep your feet dry, but you can usually improve conditions. If it is necessary to stand for

a long time in a muddy foxhole, dig an extra deep sump hole at one side of your foxhole to help drain off water. Stones and logs in the bottom of the hole also help to keep you out of the mud. Change into dry shoes and socks every time you get the chance.

(6) When you come into a heated sheller after a long period of attanding in the cold or wet, keep your feet away from the source of heat until the circulation starts coming hack. Too much heat applied too auddenly is stangerous because it causes a sudden enlarging of blood vessels and a rush of blood to tissues not ready to receive it.

## b. Frostbite.

- (1) Fronthite or ional freezing can be avoided by wearing warm and hose clothing and keeping dry. Proper footogear and mitlens are especially importent. If any part of your clothing becomes wel, dry or change R al once. You can get overheated and perapire in cold climates and this perapiration may later freeze inside your colthes. Avoid this by wearing lighter ciolhing when you are exerting yourself, or by opening your clothing to allow air to circulate and moisture to escape. Do not louch cold metal with your bar hands or lips. Skin immediately freezes to anch surfaces. If the skin should adhere to a metal surface, relaces it by warming the metal. The skin will be damaged if forceably separated from the metal.
  - (2) If a part of your body gets frestbitten, il becomes grayled or white and loses feeling. Frequently there is no pain, so keep watching your face and hands and those of your companions for signs. The facs, hands, and feet are the parls most frequently frestbitten.
  - (3) To thus a frostbitten part, put it next to a warm part of your own body or next to the warm part of someone elsa's body. For example, put your left hand under your right armpit and cover the part with extra clothing or blankets.
- (4) If pain becomes too severe while a part is tilswing, slow the thawing by exposing the part to cool air.
- (5) Do not rub or bend a frostbittsn part of the body. Do not rub it with anow or ke. Do not dip il into warm water or bring it close to a fire.
  c. Heat Crumps. Heat cramps occur when you have been sweat-

ing a great deal and have not taken extra amounts of salt. Symp-

toms are muscle cramps, especially of the intestines, abdominal wall, arms, or legs. You may vomit and be very weak. Treatment is to give large amounts of salt water—two salt tablets per cauteen.

- d. Heat Exhaustion. Heat exhaustion is caused by excessive loss of water and sait by the body. This condition results from heavy aveating. Symptoms of heat exhaustion may be any, at a combination, of the following: planeness, literaines, profuse sweeting, faintness, cod, most 4 kin, or abdominal examps and mass date cramps of the back, arms, or legs. 'Treatment is to move the patient in a coal place, remove outer clothing, elevate feet, move logs an and slown or unassage them, give two sait tablets are a manter; teasyson of salt with each cauteen of water. Get medical unit far further treatment. You can unanuly avoid this condition by taking plenty of salt with your food or by adding salt tablets to your division was.
- e. Heatstoke, Heatstroke, a very serious condition with a high death rate, is characterized by very high body temperature and unconsciousness. A stoppage of sweating and hot dry skin are how retired skin takes on a bright pink caller unit may become delirious. Lower his body temperature by using him with cool or cold water, and faming him with tool or cold water, and faming him with his shirt. Get the add of a mediant officer immediately.

### 46. Body Cleantiness

- a. You can keep well only by observing the basic rules of personal hygiene. Practice and correct thinking make these health rules habitual.
- b. If possible, bathe your entire body at least once a week with soap and water. Pay particular attention to the groin and the area uniderneath the arms and be sure to rinse off the soap. When bath facilities are not available, take a sponge bath by using your helmet to hold the water.
- c. If no bathing facilities are available, dry and scrub your body with a towel or with the old underwear when you change. Protect yourself against lice and other parasitic insects by dusting the seams of your clothing with issue insect powder.
- d. Underclothing absorbs perspiration and oil from the body and soon loses its insulating qualities and needs to be changed. When wearing woolen underclothing, avoid frequent changes by wearing light, easily washed underclothing next to your skin.
- e. Care of the feet is important to every soldier. Start every day with a clean pair of socks. Feet swell some during the day, particularly during a march, so do not crowd on extra socks. Wear

snough to be comfortable and to cushion the feet but not enough to cause tightness which cate of circulation. Avoid wearing torn or poorly mended socks—they cause blisters. When changing socks, wipe each foul throughly with the top of the old sock, rubbing well between your toes; use foot powder and put on the fresh socks, smoothing out all wrinkles. When wearing more than one pair of socks, change the pair next to your akin. Always carry extra socks in the top of your pack where they can be slipped out without disturbing the entire pack.

- f. If a blister develops and medical care is not available, you should...
  - (1) Wash the blister area.
  - (2) Open the blister by sticking it at the lower edge with a sterilized needle or knife point. A needle or knife point can be sterilized by heating with a match or cigarette lighter.
  - (3) Drain the liquid from under the akin.
  - (4) Covar with a band-aid or adhesiva plaster.

g. De not use eintments, salves, or medicines on your feat unless prescribed by a medical officer. Many commercially sold medicines tend to soften the skin or to increase aweating. Pravent corns and callusas by wearing properly fitted aboea; if you get a corn or callus, let an alignment read it.

h. Athlete's foot is a condition of the feet caused by a fungus. This fungus grows best in warm and moist places such as your feet. You can prevent it from spreading by keeping your feet clean and using foot powder to help keep them dry.

 Brush your teeth at least once a day. Sail from rations can be used if no tooth powdar or pasta is available. Brush with water alone if no cleanser is available. Carry your toothbrush with your maintain executial toilet a tricles.

 Keep your hair clipped short to avoid picking up dirt and vermin. Short hair is sanitary and comfortable.

vermin. Short hair is sanitary and comfortable.

k. Use your training to do all you can to help yourself and your companious.

### 47. Food Sources

Sunitary atandards in many oversea areas are not as high as in the United States. Foods prepared and handled by natives, are purchased from open air markets, are particularly dangerous. They are loaded with disease germs, not only from handled; by many people, but from contact with files which have access to open air lattines. In many countries, human feece are used as garden

75

and field fertilizer. This practice aprends diseases. You usually suffer more from these diseases than the natives do because they are often immune to the local germs. The safest rule to follow is to eat and drink nothing except that which is issued to you or which has been investigated and approved for consumption.

## 48. Water Conservation and Purification

a. Learn to use only the amount of water absolutely necessary for drinking, buthing, and cooking purposes. Water is essential to the continued effectiveness of your unit and must be conserved. b. Contaminated water is one of the greatest threats to the

health of a Soldier in the field. Water obtained from other than an approved source must be comisdered containment and must be partified before drinking. This may be done by using imiliridual water purification tablets (sidne) in your canteen. Use one tablet if the water is clern, two tablets if it is dirty or coloreal; replace the cantence acp loosely to allow a fittle lenkage. Wait 5 minutes, then shake your canteen thoroughly so a little water leaks out to dislinefact the server threads. Wait 10 minutes before drinking. If the water is very cold, wait 20 minutes. If water purificulties theirs are not available, water may be purified by their their water than the color of the purification theirs are not available, water may be purified by his desired acquired, at their water has been contaminated by bloodyful egents, it must be holded for 5 minutes.

## 49. Replenishing Salt and Body Fluids

The principal means of cooling the body is by ewealing. Reep up an adequate production of swent, you must larks play to water. However, profuse aweating takes large amounts of sail from the body, n chief cause of hent exhaustion end heal cramps. Take additional quantities of sait with your food end edd sail tablets to your drinking water.

### 50. Waste Disposal

a. Tin can cut lives, litter up an area, breed mosquitoes when full of water, and draw files. Food scraps attract rats, roackes, and files. Bury your wante when you finish eating. Sumpa should be ding in ureas occupied for extended geriods. Du mit figuore cleamilizes just because you are leaving an arrae; protect the leadth of the troops who fother you into an area. You know haw you feel when you have to move into a fifth area.

b. Of all types of waste, human waste is the most frequent conveyor of intestinal diseases; thus it is essential you always bury your feces. Dig a small hole if you are on a march or use a strabille trench or deep pit latrine in a temporary camp or bivouse.

### CHAPTER 4

### COMBAT INTELLIGENCE AND COUNTERINTELLIGENCE

#### Section | GENERAL

#### 51. Definitions

- a. Combat intelligence is that knowledge of the enemy, the weather, and the terrain which is used to plan and conduct tactical operations within a given area.
- b. Counterintelligence (in combat) is all the measures and actions we take to detect, prevent, and neutralize espionage, sabotage, and subversion; and to keep the enemy from finding out where we are, what we are doing and planning to do, and how strong we are.



Figure 47. You can help.

### 52. Importance

a. The mora we know about the enemy and the less he knows about us the easier he is to defeat.

b. Your commander bases his tactical decisions on combat flutilitence. Without decorate combat indifference, he may be compared to a prizefighter entering the ring blindfolded. In any attaction your commander must determine the best way to accomplish the mission. He considers his own troops, the enemy forces, the weather, and the terrain over which he must sportal. Information about the enemy and the terrain over which he must sport and the control is the uncut stiff could be sufficiently and reporting this information, assist your commander in making his decisions (Fig. 47).

c. When you prevent the enemy from obtaining information of our forces, you are helping to send him into the ring blindfolded.

### Section II. INFORMATION

## 53. Types

Information may be positive or negative.

a. Positive information converns those things the enemy is doing.

b. Negative information concerns what the enemy is not doing. This may be just as important as what he is doing. For example, a slowing or stopping of activity in a previously active area could indicate massing of troops in another area.

### 54. Sources

Your commander obtains information from many cellection agencies such as patrols, observation posts, aerial recommissance, and from higher headquarters. Those of you who are in frequent, direct contact with the enemy—on patrols and in observation posts—secure much information from the following sources:

a. Enemy Personnel-by capturing them whenever possible.

b. Everny Documents—hy picking them up or by searching enemy dead and enemy installations, and turning them in to your squad or viatoon leader.

c. Every Material—by turning in or reporting its description and location to your squad or platoon leader.

il. Enemy Activity—by observing and reporting what the enemy does or fails to do—what, where, when.

#### 55. Reports

Report all information as quickly, completely, and accurately as possible. Include WHAT, WHERE, and WHEN. An example of a report is-"Seven enemy Soldiers, traveling SW, crossed road on BLACK RIDGE (223227) at 211300 August."

WHAT?-Seven enemy Soldiers, traveling SW, crossed road, WHERE?-BLACK RIDGE (223227).

WHEN?-211300 August.

(A good way to remember how and what to report about the enemy is to use the letters of the word SALUTE.) SIZE

ACTIVITY LOCATION TINIT

TIME COUIPMENT

u. Oral reports are faster and allow questions to be asked and answered. They may be made in person, or by radio or telephone.

b. Il'ritten reports have the advantage of being delivered to the receiver exactly as prepared by the sender. Whenever possible. use a form such as shown in figure 48.

			œ R	otora casas	WER'S REPORT				
	10 <u>/</u>	1004710	LOCATION BP/4206420 SHLAT NO. 6						
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172.4	1				OBJECT OBSERVED	BEZINTED TO-	ORSERVA.		
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					5 minutes				

Figure 48. An observer's report form.

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-	FOR IN CHILE	
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	TIME PROM	
	TIME TO	
,	AREA STREAM	
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2	BATURE OF PERS	
,	MR & TYPE SHELLS BONIS	
	TIME OF PLASE TO	

OTE THIS REPORT IS SUMMITTED BY INDIVIDUALS AND UNITS DISCRYING OR RECEIVING ENEMY FIRE

Figure 49. A shell report (shellrey) form.

c. A shell report (shellrep) is a special type of report. It may be oral or written. It is used to report observations of enemy weapons. Use the form shown in figure 49 as a guide. Send in a shellrep even when the information is not complete.

d. Both and written reports may have with them maps, photos, overlays, sketches, captured documents, enemy material, or anything else which may assist in conveying the full meaning of the information being reported.

### Section III. PRODUCTION OF COMBAT INTELLIGENCE

### 56. How Combat Intalligence is Produced

a. Battalions and larger units have an intelligence officer (S2 or G2) on the commander's dail. This officer plans for the culciton of information, using all available agencies and sources. He records all information received and analyses it for accuracy, value, meaning, and perthence to his unit. When the intelligence officer has altodied all information and determined how it can office the advanced of the command of t

affect the accomplishment of the unit's mission, the information becomes compatintellisence.

b. The intettigence officer uses the combat intelligence producer to inform the commander, the staff, and alt units cancerned of the weather, the terrain, and what the enemy is capable of doing which will affect the whitity of your unit to accomplish its mission.

### Section IV. COUNTERINTELLIGENCE

### 57. Your Role

Your job is to prevent the enemy from oblaming information.

a. Practice the camouflage techniques you have been taught. If he abean't know your location, he is at a allsadvantage.

 Report suspicious personnel such as natives loitering in your nren.

- c. Ohey security regulations.
  - (1) Use proper radiotelephone procedure.
  - (2) Use the challenge and password properly.
  - (3) Turn in letters and pictures when remained.
  - (4) Avoid keeping diaries in forward areas.(5) Be careful to whom you talk about military affairs.
- d. Obey censorship regulations. Do not use prearranged codes in an attempt to give information such as your area of operations, future missions, or unit libertification. Any simple carle you devise can easily be broken I your letter is intercented by the memory.
  - e. Abtde by the Code of Conduct, if cuptured.

# Section V. PRISONERS OF WAR, DOCUMENTS, AND

### 58. Prisoners of War

The handling of prisoners of war is governed by international agreement (Geneva Convention Relative to the Treatment of Prisoners of War, 12 August 1949). They must be handled in accordance with these rules (fig. 50):

a. Sturrh prisoners for weapons and documents as suon as you capture them. Take weapons to prevent resistance and take documents, except individual identification papers, to prevent the prisoners from destroying them. Prisoners from whom personal promety is taken, including personal documents, should be given a written receipt for the property. Tag documents and other personal rocenty taken as you know which prisoner had them.

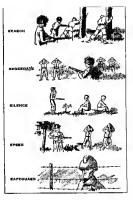


Figure 50. When you capture prisoners, remember the five S's.

b. Segregate them into groups: Officers, noncommissioned officers, privates, deserters, eivilians, females, and political indoctrination personnel. This prevents the leaders from organizing for a mass escape and from making the reat of prisoners securitymioded. Keep the prisoners segregated as you evacuate them to the rear.

c. Silence is essential. Do not allow prisoners to talk. This prevents them from planning escape and from cautioning each other ou security.

d. Speed prisoners to the rear. The information they have does no good until obtained by an interrogator and processed. e. Safeguard the prisoners as you take them to the rear. Makesure they arrive safely. Do not allow anyone to abuse them, but not allow anyone to give them cigarettes, food, or water.

### 59. Documents

- a. Documents taken from prisoners are tagged with the name of the prisoner, date, time, place of capture, and the unit making the capture. All documents are sent to the rear with the prisoner escort. there, the prisoner is questioned about the information in the dio ument.
- b. Documents found on the ground, in old enemy command posts, or similar piness are lettified to show where and when they were found and the unit which found them. Tag these documents and give them to your squad or plation leader. He gives then it the company cummander who immediately semia them in the battallon lattelligences officer. The intelligence officer of your unit takes from the documents the information be can use and forwards the discuments to the division G2.

### 60. Material

- a. Report any new type of weapon or equipment you find to your sigual or platon leuler. If It is light enough to be curried unity sure certain it is afte und not boobytrapped, take It to him unditabl him where you got It. Il see will make store it gets to the buttallon S2. If you cannot cerry the Item, report It to your squad or platon leaders so he can notify the S2 about It. In that way, you ars sure we learn of and perhaps use any new ideas the enemy has leveloped.
- b. Raport new weapons or equipment you observe. Make notes or sketches to help describe what you saw.

## 61. Ownsrship

- a. Cuptured documents and material are the property of the United States. Your leaders will tell you when items can be kept as souvenirs.
- b. Do not attempt to keep unauthorized items. They are needed to help your unit accomplish its mission.

### CHAPTER 5

## MESSAGES AND MESSENGERS

### Section I. MESSAGES

### 62. What is a Massage?

A message is a thought or idea sent from one person to another. The form of a message depends on the method of transmission. It may be written or oral and delivered by foot messenger, ar it may be sent over the telephone or radio.

## 63, Preparing a Written Message

- A well-written message is clear, complete, and conclos. A nessage is clear if it is easily read and understood. A complete nessage answers the questions of WHAT, WHEN, and WHERLE. A message should be written in the briefest manner possible, omiting words which do not add message form. In writing written military message on n field message form. In writing messagee—
- a. Print the message plainly in block-type letters. Isolated letters (except single letter words, and tha letter X when used as punctuation it the lexif of message) are spelled out using the planette alphabet. For example, the letter Z is spelled out ZULU in figure 51.
- b. Use only authorized abbreviations. If you are in doubt, du not use en abbreviation.
  - c. Always address e message to a commander.
- d. Send the message by authority of a commanier. (See OFFI-
- CIAL DESIGNATION OF SENDER line in figure 51.)

  e. Assign the precedence according to the importance of the message in regard to the overall tactical situation.
- f. Tactical messages are either classified or unclassified. You must be able to determine the appropriate classification from the text of your message. Place the security classification on the top and bottom of the message (fig. 51).
  - g. A classified message must be encrypted before it is transmitted over an electrical means of communication. However, if the tactical situation is such the enemy cannot act upon the information

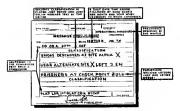


Figure 51. Make messages clear, complete, concise.

contained in the message before the addressee, the message may be sent in the ciear if authorized by the commander or his authorized representative.

- h. Punctuation is omitted unless absolutely necessary to the clarity of the message. When punctuation must be used, draw the letter X between the lines on the message form.
- i. The actual writer of the message signs his name and grade in the space labeled SIGNATURE AND GRADE OF WRITER.
- j. Eater the date-time group on the date line immediately after signing the message. The first two digits are the day of the month. The last four digits are the time expressed in the 24-hour clock system. For exemple, 10 o'clock in the morning of 3 August 1905 (Greenwich time) would be shown as \$431995 2.Aug 65. The last element of the date-time group is the time zone suffix of the area, which will have been folly our previously.
- k. Reread your message carefully. When possible, have someone else check it to see it is complete, easily understood, and answers the questions, what, when, and where.

 Destroy the sheet of carbon paper by burning. When burning is impossible, tear the sheet of carbon paper into shreds and scatter them.

ADD 100540 85

## Section II. MESSENGERS

## 64. Why Messengers are Important

Messengers are very important in lower units. They are often the only means available for sending maps and overlays, whesengers are selected for their intelligence, trustworthiness, and self-reliance. They are needed and used by all units from the smallest to the largest. Messengers have often delivered messages when all other means of communication have failed.

### 65. Equipment

Some units have personnel whose primary duty is to carry measages. However, you may be selected as a measurer because vaare apecially suited for a particular mission. Your compass and your individual weapon are samdard equipment. Other endpour like a flashlight, map, message book, or transportation is provided by the person who sends you out.

## 66, Training

a. When assigned primary duty as a messenger, you should be given additional training in how to-

- (1) Deliver oral and written messages.
- (2) Travel over various kinds of terrain at prescribed rates of speed.
- (3) Use a compass for orientation or to follow a given azimuth.
- (4) Read maps and orient yourself by stars or the sun.
- (5) Select routes which provide the best cover and concealment consistent with the need for speed.
- (6) Recognize commanders and units with which your unit maintains communication.
- maintains communication.

  b. If circumstances do not permit you to receive this training, you should train yourself us much as possible.

## 67. Double Messengers

Double messengers may be used when the message to be delivered is of vital importance or when the route to be traveled is difficult or exposes the messenger to enemy fire. For details, see EM 7.24

## 68. Messenger Briefing

a. When you are given a message to deliver, the dispatching

officer or noncommissioned officer should provide the following Information .

- (1) Name and location of the headquarters or person to whom the message is to be delivered.
  - (2) Route to follow.
  - (3) Danger points to avoid.
  - (4) Speed required.
- (5) Whether an answer is required.
- (6) Where in report in case the message cannot be delivered. (7) Contents of the message, when the situation warrants.
- (8) Special instructions, if any, b. If he does not include this information, be sure to usk for it.

c. The disputching officer should also instruct you to report your destination to the nearest leader when passing an outpost or position established by a security detachment. This leader will orient and assist you if necessary.

## 69. What to do When Carrying Messages

When there is danger of meeting the enemy, travel by cavered and concepled routes. If you are to travel over difficult routes at night, reconnoiter them during the day when possible. When you are approaching or leaving command posts, be particularly careful to avoid disclosing the location. Strive to give prompt delivery and to prevent needless exposure. Ask directions from troops you meet. When instructed to show unscaled measures to communiters en route, ask them to sign the message after reading. When in immediate danger of capture, memorize your message and destroy it.

## 70. Haw to Deliver an Oral Message

- a. When time permits, messages are written. Oral messages, however, may often be necessary in fast-moving situations. They are kept short and simple to prevent errors in transmission. When receiving an oral message, repeat it to the sender and then memorize it (fig. 52). Deliver it word for word.
- b. At times you may be asked to take a reply or other message for your own unit. This is part of your job unless you have been instructed not to delay your return for any reason.
- c. When you cannot find a headquarters, message center, or an undressee without undue loss of time, report to the nearest command nost and ask for assistance and instructions.



Figure 52. A messenger repeats an oral message to the muder.

- d. Deliver your message to the addressee or to an authorized representative of the commanding officer. Stop at the unit's measage center to determine the location of the addressee or authorized representative; then deliver the message to him personally and obtain a receipt. Before leaving the unit headquarters or command post, stop at the message center and ask if there are any messages for your unit.
- e. If your transportation is disabled, continue to your destination in the most practicable meaner. It may be advisable to report to the nearest headquarters for assistance and instructions. If for any reason, you are unable to continue on your mission, turn over your messages and instructions to any reliable person you meet. Check to astirfy yourself the person is reliable and can definer your message. Keep a record of the person, time, and place; and at the first opportunity yet, this information to the sender.

## 71. Salect Your Route With Care

The route over which you are to travel is usually selected by the officer or noncommissional officer in charge. Plan an alternate route to follow in case your primary route cannot be used. If it is an unfamiliar route, ask for a map or akset to supplement or instructions. Take advantage of signs or guides and verify the route by asking questions (par. 16).

## CHAPTER 6

### SURVIVAL ON THE NUCLEAR BATTLEFIELD

### 72. General

a. The use of nuclear weapons does not change your mission it is niways to defeat the enemy. Nuclear weapons should be respected, but not feared. You must be well trained and well disciplined in order to protect yourself and your equipment and continue your job.

b. There are rules to follow to enable you to continue to be effective. Remember, however, these rules do not replace clear thinking and the use of good common sense.

## 73. Nature of Nuclear Explosions

c. The explosion of a nuclear weapon, like the explosion of ordinary bombs and shells, causes damage by heat and blast. In addition, there is a third danger—radiation.

b. While a nuclear weapon has more destructiva power than has ever befors been found in a single package, it is just another way of causing an explosion and has definite initiations. Not seen the largest nuclear weapons can blow the earth apart. The heat and blast effects of nuclear weapons are similar to those of ordinary bombs and shells, but are greatly magnified. Radiation, therefore, is the only way in which nuclear explosions differ from ordinary explosions. The amount and type of radiation is determined by the size of the weapon and type of burst.

## 74. Effects of Nuclear Explosions

a. Blast effects are caused by violent changes in pressure at the point of explosion. A pressure or blast wave moves out from the center of the explosion. It is like a very strong and very sudden wind.

b. Thermal radiation (heat and light) effects are due to the freeball formed. It is hotter than the surface of the sun but does not last long—several seconds.

 Nuclear radiation effects are caused by two types of radiation.

- (1) Initial radiation is the nuclear radiation emitted by a nuclear explosion within 1 minute after the burst. It travels at about the speed of light, essentially along straight lines, and has a very high penetrating power.
- (2) Residuel (Hugering) radiation is the nuclear radiation emitted later than 1 minute after the burst. It confrom the radioactive materials originally in a nuclear weapon or from normally nonradioactive materials chain, as soil or equipment) which have been made radioactive by the nuclear reaction.
  - (a) When a nuclear weapon is detonated, radiation from the fireball may cause some substances in the soil and some litems of equipment to become and remain radioactive. This type of residual (lingering) radiation is called induced validation.
  - (b) When a nuclear explosion occurs under, at, or near the surface, large quantities of earth are thrown up, mixing with the fireball. The mass thrown up contains radioactive portlets of the weapon and particles of soil made radioactive by induced radiation. These particles gradually fall to the earth. This is follow.

### 75. Types of Burst

u. An uirbmst is an explosion in which the fireball does not touch the ground. Blast, heat, and initial radiation are produced. Residual radiation may be produced if the fireball is close to the ground (low airburst).

b. A sniface burst is an explosion in which the fireball touches the ground. It produces a crater, and blast, heat, initial, and residual realistion.

c. A subsurface burst is an explosion with its center beneath the surface. Some of the fireball may appear above the surface. A crater and fallout are produced. Other effects (blast, heat, initial radiation) vary in production and degree according to size of weapon, depth of detonation, and whether detonated underground or underwater.

## 76. Types of Injuries

Injuries from nuclear explosions are caused by three ellects blast, heat and nuclear radiation.

a. Blast injuries are caused by the strong pressure wave of the explosion. Most injuries directly caused by blast are sustained

when personner are picked up and innown by the blast, receiving injuries upon landing. Indirect blast injuries are sustained when—

(1) Flying debris or equipment hits personnel (missile

- effect).
  - (2) Foxholes or bunkars collapse on personnel.
- (3) Buildings collapse or walls are blown down on personnel is. Thermal radiation injuries are caused by the tremendous
- heat and light produced by a nuclear explosion.
  (1) Heat from the explosion produces injuries varying from
  - (1) Heat from the explosion produces injuries varying from the equivalent of mild sunburn to death. It may set buildings, forests, and equipment on fire.
  - (2) Light from the axplosion (brighter than the sun) may darzle you, as does the light from a camera flashbult, Darzle from a daylight burst does not last more than about five minutes. Dazzle from a highly burst lasts about 10 minutes if you are facing in the direction of the burst, and about 5 minutes if you mer facing may from the burst, Bowever, loss of night vision may be complete and readaption required (pur. 33). Permanent aye injury may result if your eyes are focused directly on the firebalt.
- c. Nuclear radiation injuries are caused by peneirating ruys from initial or residual radiation or both. The effect radiation may have on you depends on several factors, including—
  - (1) Total amount of radiation received.
    (2) Previous radiation damage to your body which it has
  - not repaired.
  - (3) Length of lime during which radiation is received.
  - (4) Other Injuries received at the same time as exposure to radiation.
  - (5) Amount of body surface exposed to radiation.
  - (6) Your general physical condition.

### 77. Protective Measures

There are phases of inhlyhlad measures in nuclear explosions— BEFORE, DURING, and AFTER the explosion. Your until will have a standard operating procedure (SOP) covering such procedures as the use of protective equipment, first aid, firefighting, correspondation, marking of contaminated areas, and devontamination. Know and follow your unit SOP. In addition, remember these general procedures:

- a. Before the Explosion. If you have warning of a nuclear explosion, and available time and the tactical situation permit:
  - (1) Improve your position. Dig deeper and cover your foxhole. Even your sheller half, covering the top of your foxhole, helps protect you. A poncho should not be used because it may get too hot, melt, and cause burns. Revet your position, if possible. See paragraphs 40 and 41.
  - (2) If you do not have time to prepare a good position, dig a shallow trench (fig. 35) deep enough to have your body below the surface of the ground. Cover it with your shelter half.
    - (3) Wear your helmet and keep your face down.

### b. During the Explosion.

- Crouch low in your foxhole with your head down (figs. 53 and 54), or lie flat in your trench with your sheller half over you.
- (2) If you are in the open, try to get into a nearby dilch or behind a wall, but in not try to get to shelter if it is more than a few meters away (figs. 55, 56, and 57).
- (3) If no shelter is available, turn your back to the explosion and drou list on your stomach (fig. 58).
- (4) Do not look at the explosion. The brilliant llash will cause temporary blindness and may cause permanent eve damage.
- (5) Stay where you are until the blast wave passes. By this time, the greatest danger from heat, initial radiation, and flying debris will be over.

### c. After the Explosion.

- (i) Fallout may be a danger to you. Consistent with your
  - (a) Keep under cover until fallout has stopped.
  - (b) Brush the dust from your clothing. Scrape up and throw out any dirt be other material which has fullen into your foxhole. Dig out dirt and pile it several centimeters deep for at least I meter around the hole.
  - (c) Clean your equipment as well as available material permits.
    - (d) Render assistance to others as much as possible.
- (2) Be prepared to continue your mission. The enemy can be expected to follow up a nuclear explosion to take alvantage of any resulting damage and confusion. Stay in your position to repel an attack.

AGO LORGER 93



Figure 53. Ordinary funholes dug deep give good protection if covered.



Figure 54. Revetted foxholes are excellent protection against all effects.

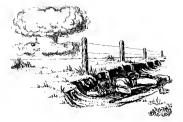


Figure \$5. Ditches provide some protection.



Figure S6. Small rises provide some protection.

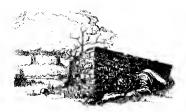


Figure \$7. Walls provide some protection.



Figure 58. If eaught in the epen, drop flat.

## 78. Leadership

A nuclear explosion may cause heavy casualties among your leaders and may even completely destroy your unit's chain of command. You must be ready to assume a leadership role without hesitation and accomplish new responsibilities.

### 79. Friendly Nuclear Weapons

We may use nuclear weapons close to our areas. If used close enough to be a danger, you will be warned and instructed on precautions to take. The individual protective measures discussed in previous paragraphs are important in a situation of this kind.

### 80. Contaminated Areas

You may be required to occupy a contaminated (radioactive) area. If so, take the following actions:

### a. Dig foxboles quickly.

b. Scrape dirt from around the edge of your foxhole for at least one meter (par. 77), and scatter dirl arouml the foxhole for ten meters.

### 81. Contominated Equipment

Trained personnel in your suit will use instruments to test equipment and supplies for contamination. If instruments are tacking, the urgency of the situation dictates whether equipment is used without being tested. Generally, equipment not danged by the explosion is safe to use. Washing or brushing will usually make contaminated equipment asafe to operate.

### CHAPTER 7

## SURVIVAL EVASION, AND ESCAPE

### **B2.** General

- a. Units are always vulnerable to being isolated and cut off from friendly forces by enemy action. You may be a member of a unit which finds itself cut off and isolated in the enemy area.
- b. As a member of a patrol operating in an enemy area, you may become separated from your patrol and find yourself alone, or with a small group.
- c. When such a situation occurs, your mission, or the unit's mission, becomes that of getting back to friendly forces.

### 83. Your Problems

- If cut off in an enemy area, you have these major problems— AVOIDING THE ENEMY
  - LIVING IN THE FIELD WITH LIMITED EQUIPMENT GETTING BACK TO FRIENDLY FORCES
  - If you are captured, you also have the problem of— ESCAPING FROM THE ENEMY

## 84. Explanation of Tarms

- a. Survival is living through a period of hardship while you are evading or during the time you are a prisoner.
- b. Evazion is the action you take when cut off in an enemy area to stay out of the hands of the enemy and to get back to your own unit.
- c. Escape is the action you take to get away from the enemy if cantured.
- d. The Code of Conduct prescribes the manner in which every member of the United States Armed Forces must conduct himself when faced with the possibility of capture or if actually captured.

### 85. Survivol

Living in the field with limited equipment requires a thorough knowledge of the techniques of living off the land and taking care of yourself. See FM 21-76.

#### 86. Evasion

When a unit is isolated, five courses of action which may enable the group or its individual members to avoid capture and rejoin friendly forces are:

- a. Defeuse of Present Position. This course of action might be adopted when a unit occupies good defensive terrain and early relief by friendly forces is probable.
- b. Breakout to Areas Under Friendly Control. This action may be possible when relatively weak enemy forces are between you and friendly areas.
- c. Evasion. This course of action may be considered in two ways:
  - By unit—a small unit may be able to return to friendly areas by carefully ovoiding contact with the enemy.
    - (2) By infiltration—small groups may be able to infiltrate to friendly areas. Generally, this is the least desirable. It means loss of unit integrily and requires a high degree of training, aggressiveness, common sense, and a good physical condition.
- d. Deeper Penetration to Conduct Guerrilla Operations. This is primarily a short tarm operation, not to be confused with activities of epecial forces. This course of action might be adopted when anamy rear areas are lightly held, or whan dependable information indicates n good possibility of linking up with organizar junarrillas.
- e. Combination of Any of the Above. An example might be defense of your position until nightfall, then evading by infiltration.

### 87. Escape

a. If captured, make your escape early. You will never be in any belter physical condition to except than you are at the moment you are captured. Prison rations are barely enough to substin life, certainly not enough to build up a reserve of energy. The physical treatment, medical care, and rations of prison life soon show their effects in moral and physical waskness, night blindness, and loss of coordination and reasoning power. There are other reasons for making your escape early. The enemy on the buttledied is runfused. Your friendly artillery fire or air strikes may give you a chance to got away. The fart guards you will have are mut as well trained in handling prisoners as guards farther back. They may even be walking wounded who are worried about their now condition. You know something about the terrain where you are cantured and you know the moreytimals location of friendly.

units. Several days later and many kilometers away, you may be in strange territory.

- b. The exact way you make your escape depoints on what you can think of to fit the particular situation. The only general rules are to make an early escape and do it when the enemy's attention is distracted.
- Escape from a prison camp is much more difficult and requires more detailed planning. It must be organized, equipped, and supported as any other military operation.
- of it may not be easy to contact friendly units, even when you know where they are. Approach the problem as you would if you were a member of a lost patrol. Time your movements so you pass through the enemy forward areas at night and be between the enemy and friendly units at dawn. A good plan is lo find a dictor abelibole where you have cover from both friendly and enemy fire. Attract the intention of the friendly forces by waving a while cloth, shouting, exposing a panel or some other method. This aleast friendly forces, mult bey me prepared to accept my small group which appears willing to surrender or rangin cantact. Altered, they are not so likely to motor you sight.

### 88. Your Conduct

- a. The Code of Conduct governs your actions at all times. You never currender of your own free will, and you never surrender men under your command while they still have the menus to resist.
- b. If captured, continue to resist in every way possible; make every effort to escape mid to help others escape. Do not accept special favors from the enemy. Do not give your word not to escape. Give no information and he nobling which will harm a fellow pilsoner. Give only your mane, rank, service number, and date of birth. Stale answering may other quotions. It is your duty to resist the enemy in every way—to escape and lo continue in field.

## 89. You Nend All Your Othm Training

Successful survival, evasion, and escape require a firm thereminiation to avoid capture, to survive not resist of required, and to make every effort to escape if caplured. Knowledge of a few specific techniques improves your chances, but must of the training you need is included in other phases of the combat training of the inhividual Sodiler. You need to use all your other training in the use of cover, concesiment, and camonifige muterials, and and night movement behavious; maintenance of direction; security; peasing of obstacles; the use of allest weapons; health measures; physical conditioning; and patrolling. These are all basic to survival, evasion, and seesape. Your training prepares you to colduct yourself in a manner which will reflect credit on yourself and the United States of America. See FM's 21-77 and 21-77A.

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## CHAPTER 8

### THE SNIPER AND INFRARED EQUIPMENT

### Section I. THE SNIPER

### 90. What is a Sniper?

A sniper is an expert rifleman trained in the techniques of the individual Soldier and assigned the mission of sniping. To be selected for sniper training, you need many skills. A sniper is a physically and mentally hardened expert rifleman who must be able to—

- a. Estimate ranges.
- b. Search areas.
- c. Locate and identify sounds.
- d. Use cover, concealment, and camouflage.
- e. Use maps, sketches, aerial photographs, and the compass.
- Recognize enemy personnel and equipment quickly.
- g. Move without detection.
- h. Endure long periods of waiting.

## 91. Your Misslon os a Sniper

a. Your mission as a sniper is to shoot key enemy personnelleaders, gunners of crew-served or automatic weapons, communication personnel, observers, and enemy snipers. In the absence of these priority targets, fire on any personnel who expose themselves.

b. In addition to your sniping mission, you get information for your intelligence officer. In constant search for targets, you become familiar with the enemy terrain and report enemy activities which you observe.

### 92. Sniper Selection and Training

Commanders select anipers from outstanding riflemen in their units. Snipers must be trained in the maintenance and operation of electronic night firing and viewing devices and other points of specific emphasis as a commander deems necessary or as time permits.

### 93. The Sniper's Equipment

The individual sniper carries only the equipment necessary for his mission. Besides his weapon, he may need a sniperscope, infrared weapon sight, binoculars, watch, compass, camouflage clothing, or a metascope.

### 94. Employment of Snipers

a. Planning for Their Use. Plans must be laid to properly lumin displand anipers or sniper teams. Friantry and ulternate positions must be prespect and camouflaged to preserve the ustural appearance of the terrain. Other troops in the area must avoid these positions. The use of snipers should be incorporated into the tackied plan of the unit commander. Special provision must be made for the sniper's rest and recuperation after strennous tours of duty.

b. Sather Teams. Suipers are best employed in pairs, particularly when operating from a stationary post. Remaining in one position for long periods of time and the constant use of latture-lars, places a heavy strain on one man. By working in pairs, anipers are able to alternate duties; thus keeping their post in continuous operation. One observes and estimates range while the other fires. The first along should be a bit.

c. Individual Scipers. The individual sniper can often cuver a large area by moving from one position to another. Slugde snlipers are employed when two might be detected. In this case, the sniper sniper moves from one firing position to another as often as the search for worthwhile targets and good fields of fier require. He coordinates with the troops in each area so they may point out largets and know where he is onergaine.

d. Attached Snipers. Snipers from reserve units may be attached to companies in a battle position.

### 95. Selecting Your Saiping Post

A aniping nost may be elaborate or simple. It is normally a carefully aelected position having a clear field of fire and cover and conceniment, a concealed route of approach from the rear, and an inconspicuous appearance. The post must be within effective range of expected targets. When you are operating forward of your own positions, select a spot which has no covered approaches from the flanks, is not on the skyline, and will not should be appeared to the contrasting background. Do not occupy a prominent landmark—it generally draws fire.

### 96. How to Use Your Sniping Post

Conduct your operations from your aniping post with great care, adhering to all the principles of camoufage and concealment. Move showly and cautionally. Quick, jerky movements attract attention. Change duties with your partner periodically, but to not change positions with him. Besides exposing parts of your body, there are other careless practices which may disclose your lostiness—stoney of sharp to conspicuous equipment, reflection from most open to the control of the control of

### 97. Snipers With Potrols and an Intelligence Missions

Snipers may accompany pairols whenever deemed necessary by the unit commander. They must be briefed and horoughly familiar with sill the details of the patrol. In event of enony artion, they move to a position from which they can assist in overnming the enemy. Snipers can sail in intelligence work and help locate targets for supporting weapons. Since they are smally well forward in an elevated position near the enemy, they are side in every location of the state of the state of the state of the experimental of the state of the state of the state of the relef. When perforn 'ng dulies as a suiper, your ubserver role is neutralized.

### Section II. INFRARED EQUIPMENT

### 98. The Metoscope

There are two types of metascope. Both types are small and lightweight.

a. The US F metascope is a device for receiving infrared light and converting it to yisible light (fig. 59).

b. The image melascope has the infrared detection rapatilities of the US'F metascope, and also provides the operatur with a shurt-range viewing capability through the use of an infrared fushlight which is a part of the metascope (fig. 61).

### 99. Use

a. Both metaseapse enable you to detect direct or reflected infrared light ray. The Infrared report revelved is reduced by foo, snow, rain, or smoke as are visible light rays. Itage also reduces intensity. Under ideal conditions, the maximum range for reveiving direct rays is 600 meters from a flushlight and 5000 meters from the supersone light rays.

- b. As a receiver, either metascone may be used to-
  - (1) Receive prearranged code signals.
  - Identify and reach an assembly point, rendezvous point, landing zone, landing beach, or the like.
     Guide convoys and patrols.
    - (4) Detect enemy use of infrared devices.
- c. The infrared light source of the image metascope also allows it to be used to—
  - Send prearranged code signals.
     Observe areas without another infrared light source.
- d. At close range, do not point the receiver directly at a constant light source as such a light causes unnecessary discharge of the metascope and hinders your vision.

## 100. Safaty Precautions

a. The US/F metascope contains a small quantity of radium. To prevent unnecessary exposure of personnel and photographic



Figure 59. US/F metascope.





Figure 60. Image metascope.



Figure 61. Sniperscope manufed an earbine.

equipment, the following precautions are taken in using individual instruments

- Metascopes are issued to personnel just before an operation and they are returned for storage as soon as the operation is completed.
- (2) The instrument should be in direct contact with the operator only when he is using or carrying it. Although direct contact in the same spot of the operator's body for 140 consecutive hours involves no hazard, men who continuously handle or receive exposure to metascepse must take periodic medical examinations to determine if they are suffering from radium exposure.

 Personnel more than Iwo meters from a single instrument are not affected.

#### 101. The Sniperscope

The superscope is a device for viewing persons and objects in the dark and for use us a upid firing aight. It considers of mirror real light source, an electronic telescope mounted on a rife, curtian, real light source, an electronic telescope mounted on a rife, curtian, on other weapon, and a power source consisting of a powerpruck and battery carried in a knapsack-type carrying case on the uperalor's tack. It is capable of picking up a target at a 45 might to the line of observalism at a range of over 115 melers on a dark night. The subject-cope complete with pureer source, before mounting on a westpon, weight approximately 25 pounds. Figure 61 shows the current model mounted on a cartinic.

#### 102. The Infrared Weapon Sight

The infrared weapon sight is the replacement item for the sulper vote. It is similar in purpose, use, and general design. It has the advantages of greater range and lighter weight (fig. 62).

#### 103. Uses

The sniperscope and infrared weapon sight are generally used to-

- a. View persons and objects in the dark.
- b. Make it possible lo fire on appropriate targets at night.
- Detect possible enemy use of similar devices.

d. Send and receive predetermined code signals by using the light source to transmit and the telescope to receive. Other sources (flashlights with infrared filters) or receiving devices (image metascopes) may be used in conjunction with the suiterscope.



Figure \$2. Infrared weapon might.

This is particularly valuable to patrols moving in advance of forward positions.

e. Transmit code messages. With infrared equipment this is possible; however, it is slow and inaccurate without highly skilled operators to receive and send. Messages are transmitted by aiternately covering and uncovering a constant light source rather them by switching the light source off and on. Prearranged messages of limited length are feasible. When receiving infrared signals at close ranges, care is taken not to point the receiver directly at a constant light source as the brightness of the resulting green light and a glow left in the sniperscope telescope hinders the operator's visions.

#### 104. Operation and Maintenance

Instruction in general operation and maintenance of infrared equipment is given in unit training. Technical details of operation and maintenance are given, as needed, by the agency providing the equipment.

# 105. Employment

a. General. The employment of infrared equipment is a command decision. Unnecessary subtlefield illumination must be suppressed, and all infrared radiation must be coordinated as to extent and direction within range of the receivers. Care must be taken to avoid detection by the enemy. When there are indications the enemy is not using infrared equipment, our forces may make millimidet actical use of equipment. When the enemy is using infrared, the tactical plan should include provisions for issuing a higher turnortion of visewing devices.

- b. Range. The effective range of infrared equipment can be increased by applying the principles of cross-illumination from two or more fight sources.
- c. Terrain Factors. As an infrared equipment operator, you must carefully select positions with a minimum of vegetation or high grass in order to have a clear view in the probable direction of the enemy. In rough or beavily foliaged terrain, you may have to clear grass and underbrush for sighting lanes. Reflection from nearby foliage, twigs, branches, or grass restricts the range and reduces your ability to see beyond the obstructions. You must look systematically for motioniess and conceased objects as well as those in motion. Slowly scan an area and then rest your eyes. Closely investigate suspicious noises or objects by using a circular search pattern with the suspected object or noise as the center of the circle. Begin close up and gradually extend the search to maximum range. Scanning from several angles being locate hidden objects or persons. Trees, bushes, and underbrush effectively screen personnel because infrared light is reflected from vegetation with such intensity that objects or persons behind it are not easily seen. However, movement of folinge and brush by concealed troops is easily detected. Cross-illumination, obtained by using two infrared sources, in effective for reducing glare from vegatation and for discovering concealed objects and personnel, For sxample, when an infrared beam is directed at right angles to the line of sight of the viewer, objects or persons hidden in hrush appear as brighter objects against a darker hackground. For this reason, the equipment is most often used in pairs,
- d. Light and Atmospheric Conditions. Infrared is most effective on clear, dark hights. Soft natural light—twilight, dawn, bright moonlight, or startight—causes a hazy glow in the telescope and reduces the clarity of the image; but it does not prohibit use of the squipment. The blinding effect of artificial light from searchlights, fares, illuminating abelts, or a concentration of mortar and artillery fires may be offset by not looking directly at these light ancrees or by rapidly closing your eye against audden limbtes. Bain or four reduces the effective range of infrared den limbtes. So the control of the cont
- e. In Defense. Infrared devices are primarily security and defensive weapons. Sentries equipped with aniperscopes are better able to cover their access of responsibility during hours of darkness. Sniperscope operators coordinate with weapon crews in evicinity so they can designate targets to these weapons at night by the use of traces.

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- f. Patrolling. All types of night patrols may use infrared equipment for detecting and hypassing or destroying enemy patrols. A small night patrol using a superscope may infiltred county areas and establish a "looking and listening" patrols where it can all the control of the control of
- g. In Attack. The weight and bulk of some infrared equipment in Int Is use under fire or in rapidly moving offensive operation. It is used, however, in holding attacks near enemy positions, for guiding a unit in the approach march, or for assaulting individual strong points, pilliboxes, and caves. Attacks through minefield at repreceded by metascope-equipped branching parties guiding parties guiding infrared lamps set on the boundaries of the proposed gap. Davades assaults on triver lines are guided by markers set by infrared equipped parties. A superscope-equipped man firing trucer ammunifor can designate a target to a tank.

#### CHAPTER Q

#### ANTIGUERRILLA OPERATIONS

#### 106 General

Operations against under a characterized by aggressivenes, initiative, and officasive action to destroy the guerrilla. Each Soldier must be aware of the important role be will play when his unit engages in antiquerrilla warfare. Furthermore, the must understand how guerrilla forces operate and what measures must be taken to defeat them. Security measures, as discussed in this chapter, are used only to conserve combat strength and madreid for the pressures and the same and madreid for the same than the

# 107. Characteristics of Guerrilla Operations

- a. Guerrilla requisites for operation include-
  - A base which provides dispersed and alternate facilities, security, discourages pursuit, offers adequate routes of entry and exit, provides routes to alternate bases, and is close to the area of operations.
  - (2) A means of supply for food, weapons, ammunition, and equipment. These can be gained through civilians, an external sponsor, or by attacks on the enemy.
  - (3) Intelligence which enablea him to plan operations or evacuate his base when endangered. Common means of gaining this intelligence include friendly civilians, monitoring enemy communications, interrogation of oppostur troops, surveillance, observation, and raids.
  - (4) Communications to gain timely information and to disseminate instructions properly. Means normally employed include messengers, civilium radio equipment, and captured friendly equipment.
- b. Support by the local civilian population is necessary if guerrilla operations are to be successful. Sympathetic civilians provide guerrilla forces the following:
  - Critical information about our fixed installations, units, and troop movements.
- (2) Food and medical supplies.

- (3) A source for recruiting additional guerrillas.
- (4) A source of ammunition, equipment, and casualty bearers.
  - (5) A source of labor for building footbridges, clearing trails, etc., or for removing sections of roads, rails, or bridges to isolate attacking units or to impede pursuit.
- c. Necessary ammunition and weapons are procured by attacks on our own forces or by supply from an outside source such as a foreign country.
- d. The guerrills is a ruthless, cunning, and able fighter even though he may have limited and outdated equipment. Meager equipment and small numbers will often cause him to attack our weak and unprotected elements. He attacks at light, during periods of reduced visibility, and during periods of inclement weather—when security is most likely to be lax. Attacks convention—to the security of the property of the

#### 108. Your Part in Antiquerrilla Operations

- a. Sci-Discipline. Practicing self-discipline is an extremely important part of combatting the guerrilla. Almost every man is proud of the spiritual values, culture, and customs of his country. If you ignore or neglect the importance of theas thems, hater do you and sympathy for the guerrilla will result. The guerrilla delives to spread reseminent against you and your country. Discipling the combined with a firm, just, and understanding policy in dealing with cyllina, well reduce the guerrilla reduced by the combined with a firm, just, and understanding policy in dealing with cyllina, will reduce chance for guerrilla success.
- b. Seartity. The individual Soldiar must be security conscious at all times. Two routina methods of providing this security are safeguarding information and guarding fostaliations. Supply depots, communication centers, command posts, and other critical areas must be protected from generilla attack. Loope taik, as well as carcless performance of duty, endangers the security of your installation and onlic.
- c. Need for Intelligence. The most successful operations against guerfills forces will be those conducted on the losels of sucorate and timely information. Your enemy is extremely elusive and requires finding and fixing if he is to be eliminated. It is munditory that information be transmitted as quickly as possible, Auy and all means of communication are used to insure the most rapid (TRAMMISSIO of MESSARES in Kennine with necessare security.)

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Your normal duties include sentry duty, manning observation poets, and patrol operations. All actions seen or heard must be reported immediately. It is extremely important for the observer to report exactly what he sees—without exaggeration. Only if required to do so, should you interpret the activities seen or hearl.

#### 109. Tactical Operations Against the Guerrilla

Since the guerrilla requires a secure base, a meane of supply, intelligence, and adequate communications, every effort is and to eliminate these essentials. Recommissance and combat patrols are organized to accomplish this mission. These follow the usual partiol organization, but additional emphasis is placed upon stealth, familiarity with terrain, protective measures, the ability to endure hardship, conduct of night operations, and mobility.

a. Steathh. All operations, unless it is desired to decive the same, will have to function with great steath life scoresy and surprise are to be attained. Guerrilla forces are so classive that uniess eteath it achieved, the force to be hit will have vanished by the time the final phase of the operation begins. The use of timely information will permit undetected movement through certain areas. The use of scoat dog teams will help you to avoid undesired contact. Movement during periods of limited or reduced visibility will help attain the desired secrecy in movement. All patrols must maintain artird nodes and light discipline.

b. Familiarity With Terrain. The guardiis has the advantage of fighting on terrain with which he is thoroughly familiar. In gives him the advantage of knowing where to position a base, where to fight, routee of communication, and how to utilize natural obstancies. If you are going to be affective in fighting him, you too must study in detail the terrain on which operations with communication, and because the state of the state of

c. Protective Measures. Patrol actions taken against caustification and the continuous continuou

the enemy will quickly detect your presence if the police of assembly or blyouse areas is inadequate.

d. The Ability to Enduer Hardship. Great patience is required during the majority of your operations against guerrilla forces. Rarely will you be able to eliminate the opponent in a single the claive action. Recentless pressure must be maintained upon the enemy force. Therefore, small-scale missions will be undertaken whenever possible to destrey the guerrilla's capability to operate. You may be required to move great distances over all types of terrain and fight is any weather extreme. Patigue and hunger may also become commonplace during sufficiently interior and the success will offen become code for dependent upon your ability assuring the complex of the succession of the become code for dependent upon your ability assuring the properties of the prope

# e. Night Operations.

- You will be required to conduct missions at night because of the advantages gained in maintaining slealth, secrecy, and surprise.
- (2) Night operations will permit you to confuse and disorganize the enemy with relative case.
- (3) You will have to know how to move silently, use your senses properly, and understand and apply night control measures. Those procedures previously discussed in this manual are applicable.
- (4) The experience required to move easily during the hours of darkness comes only through conlinuous night training.
- f. Mobility. The ability of guerrilla forces to strike and dispurse dictates the need for rapid movement. When combattling them, vehicles and aircraft provide some methods of achieving the necessary mobility. However, each Sodier must be capable of marching great distances in a short period of time. In fighting this type of warfare, physical and mental endurance are necessary onalities of every Sodier.
- g. Relationskip With Civilians, Guerrillas are dependent for support upon civilians in the area. Proper behavior toward civilans and any assistance or display of friendship for them may go far toward reducing their support for the guerrillas or even securing their assistance in providing information concerning the energillas.

# PART TWO PATROLLING

# CHAPTER 10

# GENERAL CONSIDERATIONS

# Section I, GENERAL

#### 110. Purpose and Scope

This part of the manual is your guble in patrolling. It pravides the information on putrolling that you need as a squad or platnou leader.

# 111. A Potrol

A patrol is a detuchment sent out from a unit to perform a specific recommissance or combat mission.

## 112. Increased Importance of Patrolling

New weapons and equipment continually improve the cammander's ability to obtain information of, and inflict damage or the enemy. The patrol, however, continues in increase in value because it is limited only by the ingentity selfs which it is reasloyed and the skill and aggressiveness of its neutrity.

# 113. Training in Potrolling

a. Patrolling can be learned only through practical exercises in laylight and darkness, in all kinds of weather, and over varied terrain. Clessroom instruction and map and southable exercises are valuable nits in teaching patrolling, but are not substitutes for actual work in the field.

 Realistic situations must be used in patrolling exercises. The employment of Aggressor forces increases combat realism.

# 114. Types of Potrols

a. Patrols are classified by the type of mission performed. The two general classifications of patrols are reconnaissnace and conprincipal difference is in actions at the objective.

- (1) Reconnaissance patrols collect information or confirm information previously received.
  - (2) Combat patrols provide security, harass, destroy, or capture enemy personnel, equipment, and installations.
- b. Either type of patrol may be short-range or long-range. This further classification is established by the extent of the patrol's operation in distance or time, or both.
  - Short-range patrols operate in the dispatching unit's area of influence. They operate over relatively short distances and for relatively short periods.
  - (2) Long-range patrols operate in the dispatching unit's area of influence and area of interest. They may be extended in time or distance, or both.

# Section II, LONG-RANGE PATROLS

# 1 i.5. Use of Long-Range Patrols

- a. Long-range putrols are used for both reconnelssance and combat missions. They may enter and leave their objective arreas by the same methods as abort-range pairols. In addition to differences in extent (time and distance), they further differ from short-range patrols in that—
  - (1) They usually are composed of men who have received additional training in patrolling and other areas indi
    - cated by the nature of the missions assigned.
- (2) They frequently are assigned a series of missions.
  b. Cross-training of long-range patrol members is very important. Men must be able to perform dual functions so the loss of a few men will not make the pairol ineffective.

#### Section III. ANTIGUERRILLA OPERATIONS

# 116. An Explanation of Antiquerrilla Operations

- a. Both short-range and long-range pairols perform reconnaissance and combat missions in antiguerrilla operations. Successful execution of these missions requires consideration of the significant differences between conventional and guerrilla forces.
  - (1) Guerrillas are difficult to identify because they frequently dress in civilian clothing. Although distinctive insignla

- is sometimes worn, the weapon carried is often the only means of identification.

  (2) Guerrilla forces are clusive. They scatter when threat-
- ened, fade into the civilian population, and make decisive combat difficult or impossible.

  h. Specially qualified persons may be of value to patrols encared.

b. Specially qualified persons may be of value to patrols engaged in antiguerrilla operations. For example:

- (1) Persons speaking the language of the area.
- (2) Persons native to the area who are sympathetic to our cause. They may be able to identify guerrillas, help locate guerrilla bases, and provide other timely information.
- c. Rapid and reliable communications are especially important. Immediate transmission of important information permits prompt, decisive action against guerrills forces.
- d. Membera of patrols engaged in antiguerrilla operations must be so wall trained and wall rehearsed in patrolling they can be organized and dispatched with minimum delay.

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#### CHAPTER 11

# PATROLLING RESPONSIBILITIES AND THEIR

#### 117. The Commander's Responsibilities

The commander is responsible for the patrolling effort of his organization, to include...

- a. Training In patrolling.
- b. Selection of patrol leaders.
- c. Formulation of patrol missions.
- d. Issuance of the patrol order.
- e. Coordination.
- f. Control measures.
  - g. Support.
  - h. Supervision.

# 118. Cammand and Staff Action

The commander cannot personally accomplish all patrolling responsibilities. Many functions related to the patrolling effort are delegated to staff officers and subordinate commanders.

- a. Training in Patrolling. The operations officer (S3) has adall responsibility for all training. In training in patrolling, he is assisted by the intelligence officer (S2). They work closely in preparing training programs and exercises in patrolling to insure proper training in the principles and techniques of patrolling.
- b. Srlection of Patral Leaders. In training situations, the unit-communier rotates duty as patrol leader senson his NCO's and junior officers to insure that all are properly trained. In combat, the commander or elseef (company, platoot, or squaid) furnishing the patral searching solicities of available NoCO's and officers. Consistent with essigned missions, he insures rotation of duty as patrol leader and evoids accessive use of a selected few.
  - c. Formulation of Patrol Missions.

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(1) The S2 plans and recommends missions for reconnais-

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sance patrots; the S3 plans and recommends missions for combat patrols; but only the commander approves assignment of patrol missions. He considers the capabilities of each type of patrol

# (a) Reconnaissance patrols obtain information by:

- Point reconnaissance or surveillance of a point target or small area,
- Area reconnaissance or surveillance of an extended target or area.
- Route reconnaissance, which is a type of area reconnaissance where specific points along a designated route are reconnoitered. See FM 5-36 for technical details of route reconnaissance.
- (b) Combat patrols aid the combal effort by-
  - Raids to destroy or capture personnel or equipment, destroy installations, or liberate personnel.
  - Ambush of enemy patrols, carrying parties, wire repair teams, convoys, and foot columns.
  - 3. Economy of force missions to selze and hold critical
  - areas such as bridges, hills, or road junctions.
    4. Establishing or maintaining contact, or both, with
  - friendly or enemy forces.

    5. Providing security by preventing and detecting in-
- filtration and preventing surprise and ambush.

  (2) Only one primary mission is assigned a patrol. Alternate
- and secondary missions may be assigned.

  (3) The mission must be clearly stated, thoroughly understood, and within the capabilities of the patrol.

# d. Issuance of the Patrol Order.

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- (1) The patrol leader is issued a patrol order providing all the instructions, information, and guidance needed to plan, prepare for, and accomplish the mission. The patrol order is a type of operation order and follows operation order format and sequence.
  - (2) Patrol orders are sometimes issued by the communiter, but are usually issued by the staff officer responsible for the type of patrol (reconnaissance patrols—S2, rombat natrols—S3).
  - (3) The S2 gives an intelligence briefing as a part of, or in addition to, all patrol orders.
    (4) Other staff officers (S1, S4, FSC) may give briefings on
- matters related to their areas of responsibility.

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#### e. Coordination.

- Coordination is accomplished by the commander's staff and by the putrol leader. The three general areas of coordination are between the—
  - (a) Staff and staffs of other units.
  - (h) Staff and the patrol leader.
  - (c) Patrol leader and units or personnel immediately affected by the patrol's operation.
- (2) Coordination in these general areas frequently overhus to insure coordination is continuous, complete, and properly accomplished. This is particularly true of lungrange patrols since the dispatching unit's areas of influence and interest overlan those of other units.
- f. Control Measures. The commander is limited in controlling a patrol and influencing its actions after it has departed. The degree of control and influence must be planned and included in the patrol order.
  - (1) Time of departure may be stated in general terms, such as "Leave after dark," or "Leave before daylight." A specific time of departure may be given to prevent congestion in an area, reduce possibility of contact between patrols, and provide strict control.
  - (2) Time of return is usually stated in general terms, but muy be specific. Information accured by a reconnaissance patrol may lose its value if not received by a cartain time, or future operations may hinge on the results of a combat natrol. Similarly, a patrol may be required to accomplish its mission at, or within, a certain time. For example, a patroi may be required to deatroy a communications canter at, or by, a certain time in order to assist a planned attack. When the commander places time restrictions on a patrol, he must provide for the nossibility that, despite its best efforts, the patrol will not be able to accomplish the mission and comply with time restrictions. Normally, accomplishment of the mission has first priority, but determination of priority is tha commandar'a responsibility. When he places time restrictions on a patrol, he must state which has priorityaccomplishment of the mission or meeting time limitations
    - (3) Checkpoints are designated locations on the ground over or near which a patrol must pass. Normally, a report is made upon reaching the vicinity of a checkpoint. Check-

- points inform the commander of the patrol's location at the time of the report.
- (4) General route may be defined through checkpoints. The exact route is seldom prescribed, except in route reconnulssance or when very close control of movement is desired.
- (5) The communitorious plan specifies reports to be made and methods of Irenamission. Radio is usually the best means, but field wire may be solitable in some altustions when the distance is abort. The type of radio used is determined by the distance the patrol is going, availability of radios and qualified operators, and method of movement (foot or vehicle).
  - (a) Simple prearranged codes and code words are used to reduce transmission time and decrease the possibility of compromising the mission.
  - (b) Pyrotechnics (flores or smoke) may also be used, but they increase possibility of detection.
  - (c) Prearranged code words or pyrotechnics may he used to inilicate departure of friendly areas, arrival at checkpoints, accomplishment of mission, or other desired information.

#### g. Support.

- The S3 arranges with the fire support coordinator (FSC) for effective supporting fires.
- (2) The supply officer (S4) provides equipment not available in the patrol's unit.
- (3) The S2 and S3 arrange for specially qualified personnel such as scout dog teams, demolitions specialists, and pathfinder or lerminal guidance personnel.

h. Supervision. This is provided by all commanders and staff officers. They actively supervise all phases of patrol planning and preparation, giving patrols the benefit of their own training and axperience.

#### i. Debriefina.

- (1) All patrols are debriefed on return by the S2 or his representative. The patrol report form shown in figure 63 is used to help insure complete debriefing. This form is standard among NATO countries.
- (2) Debriefing techniques vary. One effective method is for the patrol leader to give a narrative account of the patrol from departure to return. Each pairol member theu contributes any additional information he haa. The de-



Figure 43, Patrol report form.

briefer saks questions to secure desired information not covered.

(3) Whatever the debriefing technique used, all patrol members have the opportunity to add to information given.

#### 119. Potrolling is A Team Effort

The commander, subordinate commanders (including patrol leaders), and staff officers all work together to plan, prepare, and execute a vigorous, effective patrolling effort.

# CHAPTER 12

# PATROL ORGANIZATION

#### Section I. GENERAL

#### 120. Why A Patrol is Organized

A patrol is organized so the mission is accomplished in the must efficient manner possible. Proper organization assists in control and effective use of time, equipment, suburdinate leaders, and after patrol members.

# 121, Steps in Organization

There are two steps in organizing a patrol—general argumizalion and special argumization. General organization is organization into elements and establishment of a patrol headquarters.

tion into elements and establishment of a patrol headquarters.

a. Elements are the major subdivisions of the pairol. They are determined by the nature of the mission—reconnaissance or com-

but.

b. Putual handpairters is composed of the patrol leader and the personnel providing general aupport for the patrol, such as a seout dog team, forward observer, melkela aldman, and radio operator. The gained leader may perform in a chail aspaciety. Fur example, in a small reconnaissance patrol, the patrol leader unually leads the reconnaissance beneat; in a small combat patrol, the may also cummand like assault element. Otherwise, personnel rumprising patrol head-patreters are not normally assigned specified duties with an element. When personnel who would normally comprise a patrol head-patreter perform specific duties with an element, they are assigned to that element and no separate patrol selections of the control of the patrol of the control of the patrol of the pat

#### Section II. GENERAL ORGANIZATION

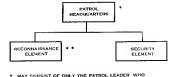
#### 122. Reconnaissance Patrols

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A recouncissance patrol is organized into two elements.

The recommissance element reconnoiters or maintains surveillance over the objective.

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- ALSO PARTICIPATES IN THE RECONNAISSANCE.
- \* MAY CONSIST OF ONLY ONE RECONNAISSANCE TEAM.

Figure 64. General organization of a reconnaissance patrol.

- b. The scennity element accures the objective rallying point, gives early warning of enemy approach into the objective area, and protects the reconnaissance element.
- $\sigma,\ A$  reconnaissance patrol does not usually have a separate patrol headquarters.

# 123. Combat Patrals

A combat patrol is organized into two elements, and usually a separate patrol headquarters.

- a. The assault element engages the enemy at the objective hy fire or maneuver (such as an assault team and a support team) or operates in the immediate area of the objective (such as demolition teams, search teams, prisoner teams).
- b. The security element secures the objective rallying point and isolates the objective.
  - c. A separate patrol headquarters usually is organized.
- d. A support element may be organized. For example, when two or more support teams are used, they usually are organized into a support element with an element leader rather than operating under the assault element leader.

# Section III. SPECIAL ORGANIZATION

#### 124. Reconnaissance Patrals

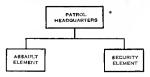
a. The reconnaissance element is organized into the recounais-

sance teams needed to reconnoiter or maintain surveillance over the objective.

- A small patrol with a point reconnaissance or surveillance mission may have only one reconnaissance team (figs. 64 and 66).
  - (2) A patrol with an area reconnaissance or surveillance mission usually has two or more reconnaissance teams.
- b. The security element is organized lato the security teams needed to secure the objective rallying point, cover likely avenues of enemy approach, and protect the recognaissance element.
- c. A patrol with an area reconnaissance or surveillance mission may be organized into reconnaissance teams, each of which provides its own security. In such cases, no separate security element is organized (fig. 67).

#### 125. Combat Patrols

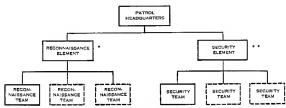
- a. The assault alement is organized into the assault team(s) and other teams required by planned actions at the objective, including but not limited to—
  - A support team, if suitable positions from which to fire are available. If positions are not available, needed irre-



\* CONSISTS OF THE PATROL LEADER AND PERSONNEL WHO DO NOT HAVE SPECIFIC DUTIES WITH EITHER ELEMENT

Figure 45. General organization of a combat patrol.

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- \* NUMBER OF TEAMS DEPENDS ON MISSION
- . \* NUMBER OF TEAMS DEPENDS ON AVENUES OF APPROACH

Figure 66. An example of the opecial organization of a point reconnuissance patrol.

power is gained by adding more automatic weapons to the assault team(s).

- (2) Demotition teams, if demolitions are used.
- (3) Prisoner teams, to secure prisoners.
- (4) Scarch teams, to search dead, wounded, buildings and bunkers

b. The security element is organized into security teams which-

- (1) Secure the objective rallying point.
- (2) Isolate the objectiva.
   (a) Give early warning of enemy approach into the objective.
  - (b) Block avenues of approach to prevent the enemy enter-
  - ing or escaping the objective area.

    (c) Cover the patrol's movement to the objective rallying point.
- o. A separate patrol headquarters le usually organized (pur. 121).

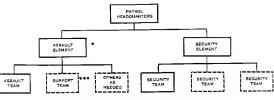
## 126. Summary

Organize the patroi so each individual, team, and element is assigned a specific task and there is no duplication of effort. When all individuals, teams, and elements accomplish their lasks, the patrol mission is accomplished.



\* NUMBER OF RECONNAISSANCE AND RECURITY TEAMS (EACH BROVIDING ITS DWW SECURITY) DEPENDS ON MISSION

Figure 67. An example of the special organization of an area recognitionsnee patril.



- \* TEAMS ARE ORGANIZED AS REQUIRED BY PLANNED ACTIONS AT OBJECTIVE.
- \* NUMBER OF TEAMS DEPENDS ON AVENUES OF APPROACH.
- \* \* \* USE OF SUPPORT TEAM(\$) DEPENDS ON AVAILABILITY OF SUITABLE FIRING POSITIONS

Figure 68. An example of the special organization of a combat patrol.

#### CHAPTER 13

#### PLANNING AND PREPARING THE PATROL

#### Section L GENERAL

## 127. Receive The Mission

Listen carefully to the patrol order. Make notes for later use, but do not try to write down every word spoken. Be sure you clearly understand all of the instructions, information, and guidance given. After the order, ask questions on points that are not clear.

# Section II. PLANNING STEPS

# 12B. Plon Use of Time

a. The first step in planning and preparing the patrol is to plan use of available time. You will be given as much time as possible to plan and prepare for the mission. As soon as the patrol order is rumpleted and questions answered, neatably outline everything that must be done before departing the friendly ares and such time for each action. Start with the time of departure and work backward to the receipt of the patrol order. This technique is called moneyary actions. Plany poor time schools of a compared patrol, and proposed to the patrol order. This technique is a called moneyary actions. Plany poor time schools around aspelled times, such as time of departure or time to make reconnaissance (figs. 198 and 70).

b. The sequence of other planning steps may vary according to such factors as availability of personnel for coordination, times at which reconnaissance can be made, and extent of coordination made by the commander.

# 129. Study The Situation

Study the friendly and enemy situations for the effect that troop lispositions, strengths, and capabilities may have on your mission. These factors influence the patrol's route, size, organization, wearons, and equipment.

#### 130. Make A Map Study

Make a thorough map study of the terrain over which the patrol

# PATROL PLANNING STEPS 1. Plan use of time.

Plan use of tim
 Study situation.

2 Make man sleets

4. Coordinate (continuous throughoul).

5. Select men. weapons, and squipment

6. Issue warning order,

7. Make reconnatasance.

5. Complete detailed plans.

9, Issue patrol leader's order.
10. Inspect and rehearse.

Figure #9. Patrol planning steps.

will operate. Check the marginal data. If the map is old, features may have changed, especially manmade features.

a. The terrain in the vicinity of the objective determines the number of security teams needed, whether a support team can be used, the number in which you will conduct your leader's recunnaissance, or the direction which you will assault. These factors indicate the size and organization of the native.

b. The terrain over which you will pass en route to the objective also influences the size, organization, and equipment of the pairol. For example, you may need boats, extra men for boat crews, or ropes for crossing streams. The terrain also helps determine your organization for movement to and from the objective.

## 131. Coordinate

a. Make all possible coordination before leaving the place you received the patrol order. Examples of coordination which must be made are—

- Movements in friendly areas. Units in whose areas you
  will operate must be informed so the patrol will not be
  endangered or unnecessarily restricted.
- (2) Departure and reentry of friendly areas. Guides may be necessary, especially if you must pass friendly obstacles such as mines or wire.



Figure 70. An example of a patrol leader's planned time schedule.

- (3) Fire support. Remember the five ways fire support can assist.
  - (a) Inflict casualties on the enemy.
  - (b) Divert the enemy's attention.
  - (c) Conceal your movements with smoke.
  - (d) Provide illumination.
    (c) Help maintain direction or determine location.
- b. You may coordinate in any of the three general areas of coordination (par. 118). This is determined by the commander. Occurrently, the coordination of may require this of you. He may effect detailed coordination or may require this of you for example, in a given situation, the commander may arrange for you to be guided to the point of departure without your having of you will not be guided to the point of departure without your having only one you may coordinate at the company CP, OP, pinton CP-OP, and the last position through or near which you pass.
- c. Even though some coordination is made for you, you must doubte check to insure it is complete and that nothing is overlooked.

 Remember that coordination is continuous throughout planning, preparation, and execution.

# 132. Select Men, Weapons, Equipment a. Patrol Members. Selection is usually restricted to the squad

or platon you command. Maintain fire least and squad integrity whenever possibile; this helps to insure a smoothly operating patrol. Do not hesitate to replace men who may interfere with the mission. For example, men with colds may endenger security coughing; a man afflicted with night bilindness is not suitable for a night patrol.

b. Wennous, You must ask yourself this question, "What do I need to do the job?" Of course, you must weigh the desirability of some wennous against the difficulty of transporting them. Only in race cases is the bulk and weight of wennous and ammunition e declaive factor in their selection or rejection.

c. Equipment. There are five general purposes or sreas for which you must choose equipment. Note that some equipment is used for more than one purpose or in more than one area.

- (1) In the objective area. This is the equipment with which you accomplish the mission. It includes such items as emmunition, demolitions, ropes to bind prisoners, binoculars, and flashlichts.
- (2) En route. This equipment assists or enebles you to reach your objective. It includes such items as maps, bluoculars, compesses, boats, stream-crossing ropes, life preservers, flashlights, amountilon, and wire cutters.
- (3) Control. Whistles, pyrotechnics, radios, flashlights, and luminous tape essist in control en route and during actions at the objective.
- (4) Water and food. Every man normally carries a canteen of water. On a long patrol, each man may carry two canteens. Rations are usually carried if you expect to be gone during a normal mealtime. Consider nerial resupply of water and food for long patrols.
- (5) Routine equipment. This is the equipment normally carried by all patrols, or which is common to all patrol members. It includes the uniform to be worn and in-dividual equipment to be carried. Normally, every man carries his ponche and at least one extra pair of socks. Gloves are carried, even in warm weather, to protect hands against thorus, rocks, and harbed wire.

#### 133. Issue A Warning Order

The patrol needs time to prepare. As soon as possible, issue a

warning order to all patrol members, including attached personnel. If circumstances make it impractical to issue the warning order to all members, issue it to the element leaders. They, in lurn, issue warning orders to their elements. The warning order consists of the following minimum items of information:

- a. A brief statement of the situation to let them know what your unit and the enemy are sloing.
- b. Mission of the patrol. As nearly as practicable, give the mission exactly as you received it.

#### c. General instructions.

- (1) General ami special organization. Assign general tasks to elements and teams. Remember that specific details of tasks are given in the patrol leader's order.
- (2) Uniform and equipment common to all. Specify camouflags measures to be taken and the identification to be carried.
- (3) Wenpons, ammunition, and equipment. As far as practicable, assign these to elementa and teams. Allow subordinate leaders to further assign to teams and individuals.
- (4) Who will accompany you on reconnaissance and who will supervise preparation during your absence.
- (5) Instructions for obtaining rations, water, weapons, ammunition, and conjument.
- munition, and equipment.

  (6) The chain of command. In small patrols (ten men or less), designate the place of every man. In larger patrols, designate the place of aubordinate leaders. Require them to establish a chain of command within their elements.
- and teams.

  (7) A time schedule for the patrol's guidance. At a minimum, include mealtimes and the time, place, and uniform for receiving your patrol leader's order.

#### 134 Make Reconnaissance

- a. Make a reconnaissance while the patrol prepares. A visual reconnaissance provides much information you cannot get from a map.
  b. Make an aerial reconnaissance if possible. Check the route
- b. Make an aerial reconnaissance if possible. Check the route you will follow; look for prominent terrain features and for signs of enemy activity.
- c. If aerial reconnaissance is not possible, try to find a location from which you can observe and study the near terrain over which you will pass.

## 135. Complete Detailed Plans

You have received the patrol order, issued a warning order, and patrol is preparing for the mission. You are now ready to plan In detail for the accomplishment of the mission (pars. 3, 4, and 5 of fig. 72).

a. Specific Dutiem of Elements, Teams, and Individuals. The warning order assigned tasks to elements, teams, and individuals. Now, assign specific duties to each. For example, where will each security team be positioned and what is its specific job?

# b. Route and Alternate Route of Return.

- Apply the principles discussed in paragraph 16 in selecting the patrol's route. Don't forget checkpoints, if any have been assigned (par. 118).
  - (2) You normally return by the same route. However, you must plan an alternate route of return to use if the patrol was detected on the way to the objective, or if you have reason to believe it was detected. The alternate route must be far enough away from the primary route so the same enemy electricity the patrol along the primary route will not letted it along the alternate route. At night these routes may be every close to expert because with the property of the prope

#### BATRON, WARNING ORDER

The paired warning order rousists of the following minimum frame of information

- a. A brief sight must of the enemy and friendly alluation,
- h Mission of the potrol.
- e Orneral histogrations
  - 1. General and sprrial organization.
  - Pulliana and egolpment common to all, In juriour identification and cambaflage measures.
  - 4. We ment amountilling, and confirment the patrol will carry
  - Who will accompany pared leader on recommissance and who will supervise pared members! preparation during pared leader's sharme.
  - Instructions for obtaining rations, water, weapone, commutation, end equipexent.
  - 6. The chein of command
  - 7. A lime schedule for the pairol's galdaner. At a minimum, Include meet times and the time, place, and authors for receiving the patrol leader's order.

of limited visibility, but during daylight a greater distance between the two is required. The siternate route, just as the primary route, must be coordinated.

## c. Conduct of the Patrol.

- Plan carefully for every action the patrol will take.
   Formation and prefer of movement.
  - (a) Formation and nrder of movement.(b) Departure and reentry of friendly area(s).
  - (c) Rallying points and actions at rallying points.
  - (d) Actions on enemy contact.
    - (a) Actions at danger areas.
  - (/) Actions at objective.
- (2) Help the planned conduct of the patrol to succeed by carefully planning for inspections and rehearssls of all actions.
- (3) Sea chapter 14 for additional detoils.

d. Arms and Ammunition. Check to see if the arms and ammunition specified in the warning order have been obtained. Were all items available? Are they adequate? The patrol must be informed if any changes are made.

s. Uniform and Equipment. Check to see if all desired equipment was available and was drawn. Is additional equipment needed? Do you need to modify the prescribed uniform? Make necessary changes now and inform the pairol.

f. Wounded and Prisoners. Your unit may have an SOP for handling wounded and prisoners, or the patrol order may give instructions. If not, consider situations which may arise and plan for each (ch. 14).

g. Signals. Plan the signals to be used within the patrol. This includes arm-and-hand signals, pyrotechnic signals, and call signs for radios used to communicate within the patrol.

- h. Communication with Higher Headquarters. What call signs will be used? What are the primary and alternate frequencies? When do you report? Will you use special code words or transmit in the clear? Ramember to include all essential details of communications.
- i. Challenge and Password. Be sure to include the current challenge and password. Don't forget to check for the challenge and password to be used within the patrol and outside of friendly areas.
- j. Chain of Command. In everyone assigned to place in the chain of command?

k. Location of Leaders. Where do you plan to be in the forma-

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tion? Make it clear that you will move as the situation requires. Place the assistant patrol leader where he can best assist in control during movement. During actions at the objective, he must be positioned so he can readily take command if you become a casualty.

# 136. Issue Your Patrol Leader's Order

- a. Issue your pairol teader's order in a clear, concise, and forceful manner. If it is not practical to issue the order to all personnel, issue it to element leaders, who further issue the order to their teams.
- b. Instruct the men to hold questions until completion of the order to prevent interruption of your chain of thought.
   c. Use svallable visual aids, such as a terraln model or a black-
- board. If none are available, sketch planned actions in the sand, dirt, or snow.
- d. Issue the order in operation order sequence, following the format in figure 72.
- e. Fire support plans, boat loading plans, and sircraft loading plans are usually given at the end of the order.
  - f. The order is Issued orally.

### 137. Inspect and Rehearse

Inspections and rehearsals are vital to proper preparation. They must be conducted evan though you and your men are well experienced in natroiling.

- a. Inspections determine the state of readiness, both physical and mental, of the men.
- and mental, of the men.

  (1) Inspect before rehearsals to insure completeness and correctness of uniform and equipment. Question the men
  - to insure each knows--(a) The pianned operations of the patrol.
  - (a) The planned operations of the patrol.
     (b) The part he plays—what he is to do and when he is to do it.
  - (c) What others are to do, as far as their actions concern him
  - nm.
    (d) Challenges and passwords, codes, radio call signs, frequencies, reporting times, and any other details that will help insure everyone is fully prepared.
  - (2) There is usually a period of time between final rehearsal and departure. Inspect again just before departure to insure all equipment is still in working order, nothing is

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# PATROL LEADER'S ORDER SITUATION a Commy Poscas Washing, Izansin, Identification, Identific, activity, strength

b Falandly Foucas: Mileston of most higher unit, location nod planned actions of aatte on alghi and lati, fine support available for patent, mission and roots of other patents.

s. Allashments and Detachments.

MISSION - What the patrol to going to eccomplish.

EXECUTION - (Subparagraph for such autour dinate unit.)
 Concept of operation.

Concept of operation.
 b. Scorific dation of elements, leave, and individuals.

s. Coordinating instructions.

(1) Title of departure and return (6) Actions on enemy contact
(2) Formation and order of murament (7) Actions at danger areas

(3) Regis and allernal a route of return (5) Actions at objective

(4) Departure and reentry of Intentity areals) 19) Stehas seals and inspections

(8) Rellying points and actions at rallying points (10) Debriefing

ADMINISTRATION AND LOGISTICS

Rations
 Arms and amount tion.

s Uniform and Equipment letels which members will carry and usel

ii Mathod of handling wounded and princers.

CHRIMAND AND SIGNAL

a Signal

131 Signata to be used within the petrol

(2) Communication with higher handquarters - radio self-signs primary and alternate transponding, times to report and special code to be used

(3) Challage and password.

is Continuend

[:] Chata of command.

12) Location of potrol landes and unsistent patrol leades in formation

Figure 72. Format for natral leader's order.

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Figure 73. Issning the patrol leader's order.

left behind, and the men are ready to accomplish the mission. If you consider it appropriate, go over all the iletalls covered in the pre-relearsal inspection.

b. Rehearsats insure the operational proficiency of your patrol. They allow you to check plans and make any changes needed. You are able to verify the suitability of equipment you plan to use. It is through such rehearsals that patrol members become thoroughly familiar with the actions they are to take furing the patrol.

- (1) If the patrol is to aperate at night, conduct both thy and night reherrasts. If possible, use terrain similar to the over which you will operate. All actions should be rebeared. If time is limited, rehears the most critical phases. Action at the objective is the most critical phase of the natrol and is always rehearsed.
- (2) An effective method is to first talk the patrol through each phase, describing the actions and having each man



Figure 74. Inspect your patrol.

perform his duties. When satisfied that everything is clear to all members, run the patrol through, using only the signals and commands you will use during the actual conduct of the patrol. Continue rehearsals until the patrol is throughly familiar with the planned operation. Rehearsals conducted in this memor are often called "dry runs" and/or "wet runs."

# CHAPTER 14 CONDUCT OF PATROLS

#### 138. General

All plans and preparations are for one purpose—the successful conduct of the patrot. This chapter explains principles to follow in conducting the patrot, and techniques you can use.

#### 139. Formation and Order of Movement

greater stealth and more security.

a. The general and special organization of the patrol established the elements and teams needed to do the job in the objective area. Now, determine the formation(a) in which you will move to the objective area and the location of elements, learns, and dividuals in the formation(a). This is called organization for monoments.

b. The dismounted photon formations discussed and illustrated in PM -15 are adaptable to a parted of any six- You can change from one formation to another as the distallon requires. Each formation has certein advantages and may be varied to fill interrain, the situation, and your needs. You may have to sacrifice some control for better dispersion or give up zome appeal for

c. These are the major factors that influence organization for movement:

- Enemy contact. The most important consideration in organizing for movement is the action you will take if the natrot makes contact with the enemy (par. 142).
- (2) Tactical integrity. As far as practicable, organize so element and team integrity are maintained. This helps in control, security, employment at the objective, and any other enemy contact.
- control, security, employment at the objective, and any other enemy contact.
   Employment at objective. Consistent with other considerations, organize so employment at the objective is

quick and easy.

(4) Control. Can your patrot be controlled better in one formation than another? The size of the patrol is an

important consideration.

- (5) The enemy situation. Where is the enemy? Can be umbush you? How strong is he?
  - (6) Speed of monement. When must you reach the objective? When must you return? Rate of movement is governed by the speed of movement of heavy weapons and equipment. If circumstances permit, place them near the front so they set the pace.
  - (7) Stealth. Can your men move quietly? Does your formation force the flanks to move through makey underlyingle? Which is most important—stealth or speed?
- (8) Security. From which direction is contact with the enemy most likely to come? Will you have all-round accurity? Assign areas of responsibility to absumats, teams, and individuals. Will speed or stealth provide the best security? A carefully controlled combination of speed and stealth is usually best.
- (9) Dispersion. Will all your men be hit by one burst of fire? Can you still control your men?
- (10) Terrain. How will the terrain affect you? Is it wooded or open? Are there roads or streams to cross?
- (11) Visibility. Is visibility good or poor? Can the enemy see you? Can you see and control your men?
- (12) Weather. How will the weather affect the ground, streams, and visibility?

# 140. Departure and Reentry of Friendly Area(s)

a. Your commander coordinates with friendly units in whose areas your patrol will operate. In some fastanees, he makes areas poor patrol will operate and renerty. Normally, however, you will have to contact one or more positions near or through which you will pass and coordinate your movements in depuriting underventering the trace. Positions where coordination may be meesary are: company CP and OP, platon CP-OP, and the last position through or near which you mass.

b. Move cautiously when approaching positions in friendly areas because you are regarded as an enemy until hlentified. Hall the pattol near the position; go forward and contact the position; and if possible, the local leader. Take at least one must with you. You may take more if the situation permits, but remember that unusual setivity at a forward position may attract enemy attention and enhanger your partol and the position. Tell the personnel at the position be information they need to assist you, such as the size of the natural, general route, and expected time of return.

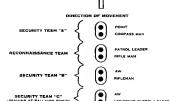


Figure 74. An example of the organization for movement of a

Coordinate your Initial milying point with them. Your specific mission and texact roate are not normally ziven personnell in the most forward politions. Request the latest information on the snemp, terrain to the front, and known obstacks. Check for communication facilities, fire support they can provide or obtain, and any other assistance they can give. Check to see they know the challenge and password. Find out if they will be manning the position when you return. If not, ask them to tall their relief of your patrol's activity. Your patrol can pass to the flank of the position or through the position. The method used depands on such as milnes and wire. Ask for a guide to take you to the next position or through milnes did not the position of through the position of position. Ask seek position to notify the next position of your approach if communications facilities permit. Request a guide if you must prose through missingled or wire.

c. Follow the same genaral procedure for reentering friendly areas. Give each position any information that may be of immediate value. If anyone is missing, when the positions to be on the lookout for him.

# Rollying Points Explonation. A rallying point is n place where a patrol can

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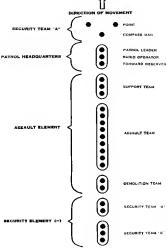


Figure 76. An example of the argunization for movement of a combat patrol.

assemble and reorganize. It should provide cover and reorganized, be defensible for at least a short time, and be easily recognized and known to all patrol members.

 All rallying points are termed tentative rallying points until likey are reached, found to be suitable, and designated.

(2) When you ilealignate a rallying point, halt the putrol and tell them, "This is a rallying point." Point nut identifying features. Be sure the information is pussed to all patrol members.

b. Types. There are three lypes of rallying points:

(1) initial trailing point. A point within friendly areas where the paired ran rally if the becomes acuttered been departing friendly areas are before reaching the first rallying point or rosts. The initial rallying point must be coordinated with the commander or leader in whose area to time.

(2) Rallying points on route. Rallying points between friendly areas and the objective.

(3) Objective religing point. A rallying point near the objective where the patrol reassembles after the mission is accomplished. Where appropriate, this can be used as the point from which the leader's reconnaissance is conducted and from which elements and teams move into nestition to accommissi the mission.

### c. Selecting Rativing Points.

- (1) Select likely locations for rallying points during reconnaissance or map study. Designate them as tentalive rallying points in your pairol leader's order. Remember they may prove unsuitable and must be confirmed and announced when you reach hem.
- (2) Always select a lentative initial railying point and a tentative objective milying point. If you cannot locate suitable areas during recommissance or map study, designate these two tentative railying paints by grid coordinates or in relation to terrain features.
- (3) Select additional rallying points on route as you rearb suitable locations.
- (4) When you reach a slanger area you cannot byposs, such as a trail or stream, select a rullying point on both the near and far sides. If good locations are nut available, designate the rullying points in relation to the damper area, For example, say "... 50 moters this side of the trail" or "... 58 moters beyond the stream."

- (a) Those who reconneiter the danger area must also check beyond if for a suitable rallying point. Designate the rallying point on the basis of their report.
  - (b) If the pairol's crossing of the danger area is interrupted, or if a portion is separated from the patrol, all members proceed to the rallying point on the far side as soon as possible.

## d. Use of Rallying Points.

- (1) The initial sellying point and realiging points on route are selected to prevent complete failure of the parts if it is unavoidably dispersed. YOU MUST MAKE EVERY SEFORT TO MAINTAIN CONTROL. TO AVOID USING THESE RALLING POINTS. The success of the patrol is jeopardized if it is dispersed and forced to raily.
- (2) The objective rallying point helps the pair of to reassemble after the various elements and teams have separated to perform their assigned missions.
- (3) If dispersed within the friendly area, patrol members assemble at the initial rallying point.
- (4) II dispersed between the friendly area and the first rallying point on route, pairof members move to the initial rallying point or to the first rallying point or units. You must state the rallying point to be used in your patrol leader's order. Your decision is based on careful con
  - sideration of all circumstances.

    (a) Return to the initial rallying point may be extremely difficult due to mines, wire, or the enemy situation.
  - (b) Forward movement to the first rallying point on route may also be dillicult, impractical, or impossible. The point selected may be mined or occupied by the enemy. The cause of dispersal, such as enemy contact, may prevent forward movement. Without maps and compasses, your men may not be able to locate the point.
- (5) If disterred between rullying points en route, patrol members return to the last rullying point or move to the next lentative rullying point. You must make and announce this decision at each rullying point. As the lore, your decision is based on careful consideration of all circumstances.

e. Actions at Rallying Points. Plan the actions to be laken at rallying points and instruct the patrol accordingly. At the initial rallying point and rallying points en route, you must provide for the continuation of the patrol as tong as there is a reasonable chance to accumplish the mission. For example, you may plan-

- (1) For the patrol to wait until a specified portion of the men have arrived and then proceed with the mission under the senior man present. This plan could be used for a reconnaissance pairol where one or two men may he able to accomplish the mission.
- (2) For the pathot be wait for a specified period, after which the senior man present will determine actions to be taken based on personnel and equipment present. This could be the plan when a minimum number of men or certain items of equipment, or both, are essential to accomplishment of the mission.

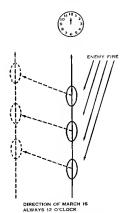
# 142. Actions on Enemy Contact

- g. There are two types of enemy contact.
  - (t) Chance contact. This, as the term implies, is an accidental meeting. The enemy didn't expect you and is not applicably prepared to deal with you.
- (2) Animah. An ambush is a surprise attack from a concealed position upon an unsuspecting, moving, or temporarily halted enemy.

b. In a clinuce meeting with the enemy, you must break contact as quickly as possible and continue the mission. If you engage the enemy any longer than necessary to break contact, you isopardize your mission.

- (1) The "clock system" is one means to break contact. Twelve o'clock is the direction of movement of the bartol. You shout a direction of the clock and a distance. For example, "Ten o'clock—two bundred," means for the patrol to move in the direction of 10 o'clock for 200 meters. As far as possible, patrol members keep their same relative positions as they move so the orligical formation is not disrupted (fig. 77). Subordinal leadure must be especially alert to insure all men pet the word and that elements and teams move quickly, correctly, and in an orderly manner. Each man must be alert to move in relation to the patrol'e direction of march, not in relation to the direction be its fariner at the moment.
- (2) Fire and movement is another means to break contact. One portion of the patrol returns enemy fire while another portion moves a short distance. Each covers the other by fire until contact is broken by all.

- (3) The methods may be combined, if appropriate, with each group moving by the "clock system" as directed.
- c. If ambushed, you must act promptly to overcome the enemy's advantage of surprise and initial fire superiority. In an ambush, you have two courses of action—withdrawal or immediate assault through the ambush. A well-prepared ambush will block move-



PATROL MOVES AT COMMAND "TEN O'CLOCK-TWO HUNDRED"

Figure 77. The clock system can be used to break contact.

ment to the flinks by use of natural obstacles such as cilfa, strems, or embinations and with mannade obstacles such as cilfa, strems, or embinations of the mannade obstacles such as full personnel weapon, or a combination of both. Withforward over your route may also be blocked by fire and may also be blocked by fire and interest only, means to break contact its pressure. Often the best, and some name to break contact its pressure, disciplination of the point of weakors fire, assault this point with maximum fire the point of weakers fire, assault this point with maximum fire, and field to your way through.

d. Anticipate the situations where enemy contact may be made and plan for actions in each situation. Be sure that organization for movement (pinr. 139) and planned actions on enemy contact support each other.

#### 143. Actions at Donger Areas

A danger area is any place where the patrol is vulnerable leementy observation or fire. Some shaper area you might hecounter until have lo cross are open areas, roads, truits, and obstuces such as harbed wire, minefields, rivers and streams, randlakes. Any knuwn or auspected enemy position the patrol must pass is also a danger area. When making your map study or recommissance, try to identify all of the danger areas you must cross. Plan for crossing each danger area and include these plans in your patrol ledder's order so patrol members will know exactly what to do upon reaching those areas.

a. Reconnoiter the near side and fanks of a danger area first, then investigate the far side. If the far side is clear of enemy, move past the danger area with members of the putral covering each other. Remember—obtateles are usually covered by fire. Avoid using agas in barbed wire or in minjefields. Make your own. Send security through the gap before moving the justod through.

b. In crossing a river, first reconnotier the near lank; then place the pairt in a position to cover the far lank. When a stream is shallow and easy to wade, send security across to the far bank. After the far bank is cheeked, cross rapidly with the remainder of the patrol. When n stream is too sleep to be crossed rapidly, you still must cheek the far bank. The security elements awims or wades across under cover of the rest of the patrol. Under cover of the security, the remainder of the patrol awims or wades across the security, the remainder of the patrol awims or wades across the stream individually nr in pairs. If crowing the stream requires symming, use improvised rafts to that weapons and ammunition. In cold weather it may be desirable to fload clothing across.

- c, If you use a noncollapsible boat to cross the river, it is not vise to hide the boat on the far bank. The enemy may find it also eswaiting for your return. Use a member of the patrol to return lie boat to the near side. Avoid using the same crossing side on cturn. If you must recross at this poind, arrange a special signal of the man you left can cross with the boat to pick not the patrol.
- ii. Cross a road or trail at or near a hend or where the road is surrow so the enemy's observation is restricted and you will be sposed as short a time as possible. Reconnotier the near side of he road, then send security across to investigate the far side. This includes investigation of the tenfative radiying point on the ar side. Under cover of the security, the remainder of the patrol masses as raudily and ouisity as possible.
- e. If your pairol must pass close to an enemy position, take dvanisge of battlefield noises to cover the sounds of movement, f supporting fires are available, you can call for lhem to divert he enemy's attention as the patrol passes.

# 144. Actions at The Objective

Actions at the objective are the most important of all phases of the patrol. See chapters 15 and 16.

### 45. Control

The success of the patrol depends on the control you are able to exercise over it. You must be able to maneuver your men as the dituation requires; to start, shift, or stop their fire as needed.

- a. Control by Voice and Other Audible Means.
  - (1) Oral orders are a good means at control. Speak just loudly enough to be heard. Do not shout except in an emergency. At night, or when close to the enemy, but the paired and have eubordinate leaders come forward. Speak to them in a low voice or whisper. They pass the information on by moving from man to man. If use of subordinate leaders is not appropriste to the circumstances, you may move from mus to mun, speaking in a low voice or whisper.
  - (2) Radios are an excellent means of control, especially in a large patrol.
  - (3) Other sound signale can be used if you can be sure they will serve the purpose intended. Rehearse planned sound signals before slarting on the patrol. Sound signals used must be natural sounds that are easily understood. A few simple signale are belter than many sig-

nals. Bird and animal calls are seldom satisfactory, They are difficult to imitate and their proper use requires detailed knowledge of the bird or animal imitated.

## b. Silent Control Measures.

- (1) Arm-and-hand signals can be used when appropriate, such as near the enemy. All members must know the start the senser, and members must know the member. Out, too, must be alert for signals from any patrol member. Patrol members are supported by the support of the support
- (2) Infrared equipment such as the eniperscope, the metaacope, and infrared filters for the flashlight may be used as means of sending and receiving signals and maintaining control at night.
- (3) Luminous tape can be used to assist in control at night. Two stript he size of a lieutenant's bar on the back of the cap or collor aid in following the man in front. Can must be taken to cover these when near the enemy. The luminous marks on the compass may be used for simple signals over short distances.

# c. Patrol Members Assist in Control.

- (1) The assistant patrol leader usually moves at or near the rear of the patrol and prevents men from falling behind or getting out of position. He is alert for signals and orders and insures that other members receive and comply with them. When the patrol halts, he contacts you
- for instructions.

  (2) Oltier subordinate leaders move with and maintain control over their elements and teams. They, too, are alert for signals and orders and insure their men receive and
- compily with them.

  (3) All partor members assist in control by staying alert and passing signals and orders on to other members. A signal to halt may be given by any patrol member but the signal to resume movement is given only by the natrol

leader,

d. Accounting for Personnel. An important aspect of control is the accounting for personnel.—knowing all members are pres-

ent. Personnel must be accounted for after crossing danger areas, after enemy contect, and after halts.

- (1) When moving in single file, the last man "sends up the count" by tapping the man in front of him and saying "one" in a low votice or whisper. This man laps the man in front of him and says "two." This continues until the count reaches you. The men behind you, plus yourself and the men you know to be ahead, should equal the total of the nairol.
  - (2) In large patrols, or when moving in a formation other than single file, subordinate leaders can check their men and report to you.
- (3) Arrange for leaders to report or for the last man to "eend up the count" automalically after crossing danger areas, after enemy conjuct, and after halts.
- (4) Arrange so the court will be sent forward when you turn to the man behind you and say, "send up the count." This is passed back to the last man, who starts the count.
- (5) Each man musl insure that the man he tags receives and passes on the count.

#### 146. Navigation

- a. Assign one or more men to be navigalors for the patrol, but check them often. Do not hesitate to change if they are not navigating properly. You are responsible, regardless of who you have doing the job.
- b. Assign mon as pacers to check the distance from point to point. Use at least two pacers and take the average of their counts for an approximation of the dislance Irruvelet. Separate your pacers in the patrol so they will not influence each other's count.
- c. Divide your route into "legs", with each leg starting at a point you can recognize on the ground. Have the pacers start their counts over a! the beginning of each leg. This makes the pace count easier to keep and provides you with periodic checks on the accuracy of the pacers.
- d. Arrange so the pace count will be sent forward when you turn to the man behind you and say, "send up the pace." "This is passed back to both pacers, who send up the pace count in meters; for example, "200," "one-seven-five," or "one-five-zero."
  - e. Be sure the men understand the counts of both pacers are to be sent forward. You must know the counts of both men in order to check them.

#### 147. Security

Your organization for movement gives you a certain amount of security. This is not enough, however. You must take additional steps.

#### a. Day Patrols.

- Disperse the patrol consistent with control, visibility, and other factors.
- (2) Keep security personnel well out—particularly those in front. Assign areas of responsibility to the front, flanks, and rear.

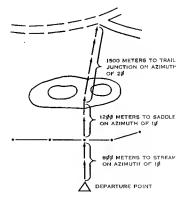


Figure 78. Divide war route into "leas" for easier check of the pace.

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- (3) When moving along high ground, be careful not to silhoustte the patrot on ridge lines.
  - (4) Avoid exposed areas and take advantage of available cover and conceatment.

    (5) Maintain an even nace: avoid rushing or running—sud-
  - (5) Maintain an even pace; avoid rushing or running—sudilen movements attract attention.
- (6) Avoid known or suspected enemy locations and built-up areas.

  b. Night Patrols. Use the same techniques as for a day patrol.
- wight Patrox. Use the same teeninques as for a day patrox, indifying them as appropriate.
  - (t) Keep men closer together than in day.
  - (2) Emphasize sitent movement. The battle area is comparatively quiet at night and sounds carry farther.
  - (3) Reduce speed of movement so there is no danger of men becoming apparated from the patrol.
- c. Aveiding Ambuth. Proper security and reconnaissance is the est quard against ambush. You must always be alert and sasiiclous of all areas. Certain areas are more suitable for an amsub than others—road and trails, narrow guilles, villages, and pen areas. Use caution when approaching these areas. Halt the atrol and study tha area. Avoid routes used by other patrols. Yor action if ambushed, see paragraph 142.

# d, Halts,

- (1) Italt the patrol occasionally to observe and listen for enemy activity. This is called a security halt. When you give the signat, every man freezes in place, maintains absolute quiet, looks, and listens. This is done upon reaching a danger area and periodically throughout movement en route. It may be appropriate to call a security hatt just after departing friendly areas and just before reentering friendly areas and just before reentering friendly areas and just before reentering friendly areas. On concealment is scarce, have the men go down on one knee or to the prone position. Remember—observation is not as good from these positions and the targer body area in contact with the ground makes siliene more difficult to maintain. Do not stop long. It is difficult to remain absolutely still and quiet for more than two or three minutes.
  - (2) You may halt the patrol briefly to send a message, cat, rest, cheek direction, or make a reconnsissance. Select an area that provides concealment, and if possible, one that provides cover and favors defense. Establish all-round security. Check to insure overgone moves out.

when you start again. At night, make each man responable for notifying the man behind him. This insures everyone moves out together and prevents loss of time. For extended halts, see paragraph 150.

e. Security to the Front. This is provided by the point, which may consist of one man in a small reconnaissance patrol. A combat patrol (usually larger) normally uses Iwo men. A companysized patrol may use a fire learn or a squad.

- (1) The point must move well sheal of the patrol—as far shead as vishility and terrain permit. In the jungle or on a completely dark night, this may be only a few meters. On the other hand, good visibility and open rain may require the point to be 100 meters or more ahead of the coatrol.
- (2) The point maintains direction by occasional glances at the compass and by maintaining visual contact with the patrol by looking back and orlenting on the patrol. If two or more men are used as the point, they maintain visual contact with the man on their right or left.
  - (3) The point moves right and left, shead of the patrol, screening the area over which the patrol will pass (fig. 79).
  - (4) The point provides security and is not a trailbreaker for the patrol. The point must be far enough shead of the patrol to provide this security. Only in unusual circumstances of poor visibility and close terrain will the point be close enough to the patrol to be guided by the compass man.
    - (6) A technique which allows good use of personnel is to use a three-man securily team for point and compass men. Two men work as point while tha third is compass man. On long partors, be men rotate duties.

### 148. Use of Rodios

Use radios sparingly. The depression of the transmission button is sumetimes sufficient to relay certain information. When transmitting close to the enemy, cup your hands over the transmitter and speak in a low voice.

## 149. Infiltration

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a. There may be limes when the disposition of enemy forces prevents a pairol from entering the enemy area as a unit; however, pairs or small groups may be able to sneak through without

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teing discovered. If this is the case, the patrol splits up as it leaves the friendly area or at a later specified time. Small groups initiatize at varying times, each using a different route. After alighping into the enemy area, the groups assemble at a predetermined function called the rendezvous point. The remiervous point aust be free of enemy, provide conceilment, and be easily recognized. An alternate rendezvous point is selected in case the initial one cannot be used. If each members of the patrol have not reached the rendezvous point within a reasonable period, the senior must present determines excitons the factors.

- b. The same procedure is followed to return to the friendly area.
  The patrol splits up and returns, reassembling near or within the friendly area.
- c. A patrol may return by infiltration even though this method was not used to enter the enemy area. This might be done when a change in the tartical situation prevants return as a unit. Infiltration breaks up the tactical integrity of a patrol and is used only when other methods of return are impractical or impossible.

## 150, Clandestine Assembly Area

- a. When a putrol is required to half for an extended period in a raen not protected by frendply troops, either and passive measures must be taken to provible maximum security while the patrol is in such a vulnerable eitheuton. The most effective meaning maximum security is to move the patrol into an assembly area, which by its location and nature provides passive security from enemy detection. Such an assembly area is termed a characteristic searching area.
- b. Activities carried out in a chandestine assembly area are similar to those associated with an assembly area located within friently hattle positions, except it is even more important that novement be held to a minimum. This site location and internal organization of a clandestine assembly area require more idealistic considerations than are required in establishing an assembly area in terrain protected by friandity troops.
- c. Your plan must include tentative chandestine assembly area locations—hased on a map recommissance—when the nature of the operation dictates an extended hatt within enemy areas. These tentative locations must be confirmed by actual ground reconnaissance prior to occupation by the patrol. Typical situations that require planning for the establishment of a clandestine assembly was include those where, there is a superior to the prior to the

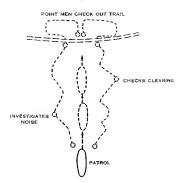


Figure 79. An example of the movements of the point.

- A requirement to cease all movement during daylight hours to avoid detection.
- (2) A requirement to hide the patrol while you conduct a
- iletalled reconnaissance of the objective area.

  (3) A need to rest and reorganize after extended movement
- A need to formulate a final plan and issue necessary orders prior to actions at the objective.

   A requirement for reorganization after a patrol has infiltrated the enemy area in small groups (used in con-

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junction with a repdezvous point).

d. Your plan for a clandestine assembly area must include both passive and active security measures.

(1) Passive security considerations-

AVOID built-up areas.

movement

SELECT an area remote from all human habitation.

AVOID known or suspected enemy positions.

SELECT terrain which would be considered of little

AVOID ridgelines, topographic crests, valleys, lakes, and streams.

SELECT steep terrain, ravines, or other such areas that would impede foot movement,

AVOID all roads and trails.

SELECT areas which do not offer natural lines of drift.

AVOID open woods and clearings.

SELECT areas offering dense vegetation, preferably

bushes and trees that spread out close to the ground, such as laurel, mesquite, and scrub oak.

(2) Active security measures you must include in plunning the occupation of a clandestine assembly area include—

(a) Establishment of an outpost system covering all likely avenues of approach into the area.

(b) Establishment of a radio communication net with the outposte to provide early warning of enemy approach.

(c) Selection of an alternate area for occupation if the original clandestine assembly area is compromised or found unsuitable.

(d) A plan for withdrawal in the event of discovery.

(c) Establishment of an alert plan with a certain percent of the personnel awake at all times.

(f) Use of the chain of command to enforce light and camouflage discipline.

 camourings usciping.
 (g) Organization of the elements of the patrol so necessary activities can take place with a minimum amount of

e. The size of the area physically occupied by a patrol in a calmeterine assembly area and the number of onlineats required are governed by the terrain, quantity and quality of cover and concealment, and the size of the patrol. A shuple rule of thumby you can use in determining low large the area should be is to comply the minimum amount of terrain necessary to provide a concept the minimum amount of terrain necessary to provide which are the contract that the contract of the contract that the contract that

assembly area, showing two-man uniposts covering avenues of approach, is shown in figure 80.

# 151. Reporting

Report important information about the enemy or the terrainas soon as possible. Report by redio, telephone, messenger, or perarrenged signal. When you return and are debriefed, use a map or earial photograph to point east areas or specific locations when you obtained information. If appropriate, make an overlay or sketch.

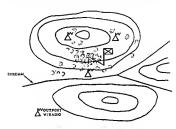


Figure 80. Typical organization of a claudestine assembly area.

# CHAPTER 15

# RECONNAISSANCE PATROLS

# 152. General

Information of the enemy and the terrein he controls is vital to the commander. He must have accurate, timely information to assist him in making tactical decisions. Reconnaisance patrols are one of the most reliable means for obtaining this information.

# 153. Missions

- a. In a sense, the mission of a reconnaissance patrol asks one or mora questions, for example—
  - About the enemy. Does the enemy occupy a certain piece of terrain? What is his strength? How is he equipped? What is he doing?
  - (2) About the terrain. How deep are the streams? Are the banks too steep for armored vehicles? What is the condition of the bridge at a certain point? How suitable are the routes of approach?
- b. The questions the mission asks are answered by the successful accomplishment of the mission.

# 154. Typas of Reconnoissonca

There are two general types of reconnaiseance-

a. Point Reconstainments. Your commander may require information about a specific location or small specific area, usually a known position or activity. Your patrol secures this information by reconnoitering the location or by maintaining surveillance over the location.

b. Area Recomenisance. Your commander may require incrmation about an extended area, or may desire information of certain locations within an extended area. Your patrol secures this information by recompositing the area, maintaining surveilance over the area, or by making the point recommaissance of a series of locations within the area.

#### 155. Organization

A reconnaissance patrol is organized into a reconnaissance ele-

ments depends on the specific mission. A patrol with a point recommissance mission is usually small—about fire team size. The recommodering element romaists of the patrol leader and one or two men. A patrol with an area recommaissance mission is usually larger. Several recommaissance teams and several searchly teams may be required. In some cases, recommaissance teams may provide their own security (ch. 12).

#### 156. Equipment

- a. Patrol members are armed and equipped as necessary for accomplishing the mission. At least one automatic weapon usually is taken to provide a degree of sustained firepower in case of enemy contact. The patrol should have all least two pairs of limits and adequate communication. A day patrol should carry a camer if one is available. The type which develops and prints the picture at one is liked if for reconnaisome patrols.
  - b. A scout dog team may be laken (see ch. 12).
- Infrared equipment may be used.
- Pencils and small notebooks are carried so notes and sketches can be made.

## 157. Conduct of A Reconnaissance Patrol

All patrols try to reach the objective without being discovered. A recommissione patrol also tries to conduct if is renonatisated without being discovered, Information may lose some or all of its value (if the energy knows we have it. Steath and patience are emphasized, Maximum use of concealment is manulatory. The patrol fights only to accomplish its mission or to protect itself. The commander tells you whether he wants you to fight to accomplish the mission. In some situations, you can locate enemy positions by having some of your mean fire to draw the enemy's fire. This technique is called "reconsulateance by fire." It is not used if there is any other way to accomplish the mission, and is used only when authorized by the commander.

# 158. Actions at The Objective

a. Point Reconneissance. Hall and conceal use patrol near the objective. This will assually be all he objective radiying point. Conduct your feather's recommissance to proposit the objective and confirmy your plan for positioning security teams and making the recommissance. Return to the patrol and position security teams. Place them as they can provide early warning of enemy approach.



r igner et. Loint reconnaissauch og the patrot teater and one man.

secure the objective rallying point, and protect the reconnaissance element. Then reconnoise the objective. You may be able to may be able to the desired information quickly and simply. It is more likely you will have to move to several positions, perhaps making a city around the objective, in order to properly reconnoiser it. Allow warrieff in reasonable length of time. Instruct the assistant policidated to accomplish the mission if you have not returned by this lume, When the recommaissance is completed, assemble the part of the recommaissance is completed, assemble the part of the contributes anything he may have learned. Make a preliminary report by radio if possible. Beturn to your unit as quickly as possible and make a full report.



Figure 41 Teams return and report.

### b. Area Reconnaissance.

- (1) Halt the patrol at the objective rallying point, conduct your leadar's recommaissance, and confirm your plan. Postition security teams and send out the recommaissance teams. When you use the entire patrol to recommoiter tha arsa, each recommaissance team provides its own security.
- (2) After completing the reconnaissance, teams return and report. Make a preliminary report by radio if possible, then return to your unit and make a full report.
- (3) Under some circumstances, the patrof may assemble at a predetermined rendezvous point rather than return to the objective rallying point. This plan might be used if

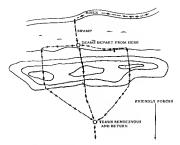


Figure 83. Recommuseance after approach from the rear.

you approach the objective area from the rear end consider it impractical to move through that area twice. For example, you might reach the enemy's rear by moving down a river, pass through and recommister the objective area, assemble at a rendezvous point, and proceed to friendly areas.

- c. Day and Night Reconnaissance. The principal differences in the reconnaissance techniques used by day and night reconnaissance patrols are—
  - (i) Day reconnaissance requires maximum use of concealment. You are more likely to be seen than at night and will not usually be able to get as close to the objective.
    - (2) Night reconnaissance requires greater use of stealth. Reduced visibility will usually require you to move closer to the objective in order to obtain information.

# CHAPTER 16 COMBAT PATROIS

#### Section I. GENERAL

#### 159. Purpose of Combat Patrois

- Combat patrols assist the unit in accomplishing its mission by-
- a. Inflicting damage on the enemy.
- b. Providing security to the unit.
- Establishing and/or maintaining contact with friendly and enemy forces.
- Denying the enemy access to key terrain.

### 160. Missions

- Combat patrols perform a variety of missions, deriving their names from the specific missions they perform.
- a. Raid patrols destroy or capture personnel or equipment, destroy installations, or liberate personnel.
- b. Security patrols detect infiltration by the enemy, destroy infiltrators, and protect against surprise and ambush.
- c. Contact patrols establish and/or maintaining contact with friendly or enemy forces.
- d. Economy of force patrols perform limited objective missions such as seizing and holding critical terrain to allow maximum forces to be used elsewhere.
- e. Ambush patrols conduct ambushes of enemy patrols, carrying parties, foot columns, and vehicle convoys.

#### 161. Organization

A combat patrol is organized into an assault element, a security element, and usually a separate patrol headquarters. A support element may be organized when appropriate. The special organization of the elements depends on the specific mission (ch. 12).

# 162. Equipment

Combat patrols are armed and equipped as necessary for accomplishing the mission. In addition to binoculars, wire cutters, com-

passes, and other equipment generally common to all patrols, a combat patrol usually carries a high proportion of automatic weatons.

a. Communication with higher headquarters is important in a combat patrol. Success of the mission may depend on being able to call for supporting fires.

b. Communication with the elements and teams may be vital to accomplishment of the mission. Radios, infrared devices, and wire should be considered.

#### 163. Conduct of A Combat Patrol

A combat patrol, like a reconnaissance patrol, tries to reach its objective without being discovered. Its aim is to achieve surprise and strike rapidly, according to a detailed plan, to catch the enemy off guard.

#### Section II. RAID PATROLS

#### 164 General

A raid is a surprise attack upon an enemy force or installation with the attacking force withdrawing after accomplishing its mission. Surprise, firepower, and violence of action are the keys to a successful raid.

- a. Surprise can be achieved by attacking-
  - (1) When the enemy is least prepared, as during periods of poor visibility such as darkness, rain, fog, or snow.
- (2) From an unexpected direction. This might be accomplished by approaching through a swamp or other seemingly impassable terrain.
- b. Firepower is concentrated at critical points to achieve fire superiority,
- c. Violence of action is achieved by gaining surprise, proper use of firepower, and the extreme aggressiveness of the attacking force.

# 165. Special Organization

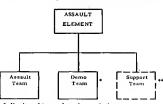
a. The special organization of the security element and the patrol bendunerra is largely determined by the terrain, comparation and attached personnel. The special organization of a support element, if used, is determined by availability of suitability of su

b. The special organization of the assault element is determined entirely by the specific mission. For exemple-

- (1) To destroy an installation or equipment, the asseult element is organized into-
  - (a) A support team (if suitable firing positions are available) to deliver neutrelizing end supporting fixes.
  - (b) An assault team to overcome resistance and physically secure the objective.
  - (c) One or mora damolitions teams to aat charges.
  - (2) To capture prisoners, liberate personnel, or seize aquipmant, one or more teams are apecifically designated to
  - perform these tasks. (3) One or more teems may be designated to search dead. wounded, and positions for documents and equipment,

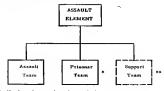
#### 166. Actions of The Objective

a. Halt the petrol near the objective (at the objective rellying point, if the patrol is to return by the same route). Establish security and make your leader's reconnaissance, taking appropriata aubordinate laadars. Ratura to the patrol and confirm pravious plans or announce any changes. Dispatch elements and



- Number of teams depends on mission.
- \*\* Use of support teem(s) depends on availability of suitable firing positions.

Figure 24. An example of the special organization of the assault element for a destruction mission.



Number of teams depends on mission.

\*\* Use of support team(s) depends on availability of suitable firing positions.

Figure \$5. An example of the epocial organization of the assault element to capture prisoners.

teams to their positions. As far as possible, arrangs their movements so all elements and teams reach their positions at about the same time. This improves the patrol's capability for declaive action if prematuraly detected by the enemy.

- (1) Security element. The teams of the security element move to positions to secure the objective railying point, give early warning of enemy approach, block avenues of approach into the objective area, and prevent enemy secure from the objective area.
  - approach into the objective area, and prevent enemy escape from the objective area.

    (a) As the assault element moves into position, the security element informs you of all enemy action, fixing
  - onty if detected or on your order.

    (b) Once the assault element has begun its action, the security element prevents enemy entry into, or escape from, the objective area.
  - (c) The security element covers the withdrawat of the assault element to the objective railying point, withdrawing itself upon order or upon a prestranged signel.
  - (2) Assault element. The assault element deploys far enough in advance to permit immediata assault if detected by the enemy on the objective. Each team uses maximum steaith in attempting to get into proper position without being detected. On command, or if detected and fired upon, the

support team (a) opens fire to neutralize the objective, then lifts or shifts far according to preservaged plans and signals. As supporting fires lift or shift, the assault team(a) assault, seize, and secure the objective. Demolition teams, search teams, and other teams are protected by the assault team(a) while they work. On order, the assault element withdraws to the objective rallying point.

 At the objective rallying point, quickly reorganize the patrol and return to friendly areas.

# Section III. SECURITY PATROLS

# 167. General

a. Security patrols acreen flanks, areas, and routes. In a state situation, they prevent the enemy from inflatraing the area, detect and destroy inflatrators, and prevent surprise attack. They protect a moving unit, including convoys, by acreening the flanks, the areas through which the unit will pass, and the route over which the unit will pass.

b. Once a security patrol contacts the enemy, it literally becomes a raid patrol.

# 168. Special Organization

Special organization includes a support team to provide maximum flexibility in case of enemy contact. Organization of other teams depends on the known enemy altuation and anticipated contact.

### 169. Equipment

 A security patrol is armed and equipped according to the known enemy situation and anticipated contact.

b. Communication with higher headquarters is especially important. Radios carried by security patrols must be capable of reliable communication over the entire distance covered.

#### 170. Actions at The Objective

a. Select u series of objectives covering the area in or over which you are to move. Plan the actions to be taken at each objective based on all available information. This is done in the same manner that you plan for actions at danger areas as you move along.

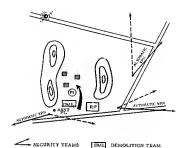


Figure 86. Typical action of a raid patrol at the objective.

ASST ASSISTANT

PATROL LEADER ARTILLERY

CONCENTRATIONS

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Be alert to modify your actions if the situation at an objective is not as anticipated.

C. As you seems such chiesting confirm or modify where for

c. As you secure each objective, confirm or modify plans for the next objective and continue.

# Section IV. CONTACT PATROLS

### 171. General

PATROL LEADER

RALLYING POINT

ASSAULT TEAM

Contact patrols establish and/or maintain contact to the front, flanks, or rear by---

a. Contacting friendly forces at designated points.

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b. Establishing contact with a friendly or enemy force when the definite location of the force is unknown.

c. Maintaining contact with friendly or enemy forces.

## 172. Special Organization and Equipment

Special organization and equipment depend on the known enemy situation and anticipated enemy contact. For example....

a. Contact patrols between adjacent units making contact at designated points are usually small and relatively lightly armed.

b. A patrol sent out lo establish contact with an enemy force is organized, armed, and equipped to overcome resistance of light accepting forces and insure contact with the main enemy force.

c. As in a security patrol, communication is especially important. Radios must be reliable over the entire distance covered.

# 173. Actions at The Objective

a, Select a series of objectives, just es in e security patrol, and proceed with the establishment or meintenance of contact ea directed.

Remember that your mission is to establish or mainlein contact, not to engage in decisive combat, if the contact is with the enemy.

# Section V. ECONOMY OF FORCE PATROLS

#### 174. Ganaroi

a. An economy of force patrol ettacking e defended objectle ie organized, armed, end equipped in the seme menure as a raid petrol. Its actions at the objective differ from those of a reid patrol only in the fact that it holds the objective instead of withdrewing.

b. An economy of force patrol seizing an undefended objective, or establishing a position without opposition, proceeds to the designated location and organizes the position as required.

## 175. Missions

Typical missions for economy of force patrols include-

 a. Establishing roadblocks to retard enemy movement or prevent reinforcement.

b. Seizing key terrain to deny the enemy access to an area.

c. Covering the wilhdrawal of a force to deceive or delay the enemy.

172 AGO (GREEN

d. Acting as a blocking force to attow a major effort to be made elsewhere without interference.

#### Section VI. AMBUSH PATROLS

### 176. Missions

Ambush patrols perform such missions as ambushing enemy reconnaissance and combat patrols, carrying parties, wire repair teams, conveys, mounted columns, and itismounted columns.

#### 177, Purposes

Ambushes are executed to reduce the enemy's combat effectiveness or to increase our own combat effectiveness, or both.

- a. Ambushes reduce the enemy's combat effectiveness by the physical damage caused and through the harassment involved.
  - (1) Physical damage. Loss of men and equipment may critically affect the enemy. He may have to divert men from other missions to protect himself against ambush. The failure of reconnaissance and combat patrols to accompilat their missions, because they were ambushed, deprives the enemy of the valuable contributions these patrols maks to his combate efforts.
  - (2) Harassment. The damage caused by the harassment of frequent ambushes is less apparant than physical damage, but is very important. When ambushes are frequent, treops tend to be reluctant to go on patrols, move in convoys, and move in small groups Thay become less aggressive and more defenalve minduit, avoid night operations, become more subject to confusion and panle if ambushed, and decline in effectiveness.
- b. Our combat effectiveness is increased when that of the enemy is reduced. For example, a reduction in the enemy's patrolling effort allows greater freedom of action for our patrols, convoys, and other troops.
- c. Patrols operating deep in enemy areas may be able to partially or completely resupply themselves through ambushes, thus increasing combat effectiveness at the expense of the enemy.

#### 178, Types

a. Ambushes are generally classified according to their primary purpose—harassment or damage. They differ principally in size and actions at the objective (pars. 180 and 183).

- Ambushes are further classified as deliberate ambushes and ambushes of opportunity.
  - (1) A deliberate ambush is one in which prior information of the target permits detailed planning before the partol departs for the ambush site. Information acceded to plan a deliberate ambush is includes the size, composition, and organization of the force to be ambushed; the manner of operation of the force; and the time it will pass certain points or areas. A deliberate ambush may be planned for such targets as—
    - (a) Any force whas sufficient prior information is known.
      (b) Patrols which establish patterns by frequent use of the same routes or which habitually depart and re-
    - enter their own areas at the same points.

      (c) Carrying parties which move at regular times over the same route.
    - (d) Troop movements which form patterns, such as changing of personnel on positions at regular times.
  - (2) An ambrak of opportunity is one in which available information does not permit detailed planning before the patrol departs. The patrol must be prepared to execute any of several courses of action are based on the types of (argest that may be ambushed and must be rehearsed prior to departure. The course of action taken is determined when the opportunity for ambush arises.
    - (a) You may be directed to reconnoiter an area for a suitable ambush site, set up at the site selected, and executs an ambush against the first profitable target that appsars.
    - (b) You may depart just after dark, move to a specified point, run a traffic count until a designated time, ambush the first profitable target after that time, and return before daylight.
    - (c) On patrol, act on as ambush mission, you may find ambush is the best way to make nemy contact that caunot be avoided. For example, while moving to or form your objective, you spot an enemy patrol that cannot be avoided and quickly set up and execute an ambush. The surprise may create enough confusion to enable you to break contact quickly ad contisue without becoming involved in prolonged combat.

#### 179. Foctors for Successful Ambush

Certain factors are essential to successful execution of an ambush. They are—

- a. A Good Plan. Your plan for a deliberate ambush must provide for every course of action the enemy is capable of adopting and must be rehearsed in detail. You must make tentative plans for an ambush of opportunity, adopting or modifying as appropriate at the ambush site. These plans must be as well rehearsed as the airtaction permitt. Your plans must take into consideration the length of the target. Remember that a single platon, moving in a cloumn of two with five meters between men, apreads more than 100 meters from front to rear. A convey of ten whiches, with meters are the contract interval, covers a road dislance of more than 500 meters.
- b. Control. Very close control must be maintained in executing an ambush. This is best achieved through rehearsals and establishment and maintanance of good communications.
- c. Patience. Your patrol may be forced to occupy an ambush site well ahead of the arrival of the target. Patience la essential if secrecy is to be maintained.
- d. Camouflage. The key to auccessful ambush is surprise. Surprise cannot be achieved if men, weapons, and equipment are not well camouflaged and camouflage discipline enforced.
- e. Information of the Enemy. However sketchy information of the enemy may be, it must be used to the fullest in plans, preparation, and execution.

## 180. Size and Organization

The size and organization of an ambush patrol depend on the purpose of the ambush, the force to be ambushed, and the weapons and equipment with which the ambush will be executed. For example—

a. You are to execute a harassing ambush of opportunity against the first vehicle convoy passing a certain point. You plan to stop the vehicles by electrically detonated demolitions; inflict causalties and Inflict damage on vehicles by automatic weapons fire and electrically detonated "Claymore" antipersonnel weapons. In this case, you would take enough men to transport the domolitions and "Claymore" antipersonnel weapons to the ambush site and emplace them. You would keep one or two men armed with automatic weapons and send the rest of the men back to the unit. In executing the ambush, you could detonate the demolitions and



- Figure 61. Stample of Aurinaring american of a deniese columns of three siens normalizations with Galagorian dispersional weaponed

your men deliver heavy fire on the target. You would withdraw before pursuit could be organized or reinforcements brought up.

b. You are to execute a deliberate ambush against a vehicle convoy to destroy all vehicles and kill or capture all personnel. Here, you must have enough personnel for an assault element, a security element, and a patrol headquarters. A support element is likely to be needed to provide heavy automatic weapons fire.

c. Your patrol is operating deep in the enemy area and you ambush a convoy to obtain supplies. In addition to security, support, and assault personnel, you must have personnel designated to collect and transport captured supplies.

### 181, Equipment

Equipment cerried by ambush patrole varies with the assigned mission. For example, more equipment in needed to ambush an enemy vehicular convoy than a foot column. Since the success at ambush patrol depends on auryrise and shock action, sufficient automatic weapons are needed to itelliver a heavy volume of lire. This is especially true when ambushing foot channels. In addition to automatic weapons, vehicular targets require antitant weapons, the automatic weapons are sufficient trapes require antitant weapons, demostled to a sufficient trapes of the sufficient and the communications are of great importance to insure a smoothly coordinate subush. Baddo are se a receipted means, but the use of field telephones should be considered because of increased reliability and security offered.

#### 182. Preparation of An Ambush Sita

An "ideal" ambush alte restricts the enemy on all sides, confing him to an area where he can be quickly and completely destroyed. Unfortunately, it is seldom possible to prepare an "ideal" ambush site and completely restrict the enemy. Natural restrictions or obstacles such as cliffs, alreams, embankments, or steep grades which force vehicles to slow down are used whenever posterior and the artificial restrictions such as burbed wire, mines, and crasteriorads are used not jot confine the enemy to the desired area, but also to inflict causalties.

#### 183. Execution of An Ambush

The manner in which you execute an ambush depends primarily on whether your purpose is harassment or damage. To a lesser degree, manner of execution is tetermined by whether your unibush is deliberate or an ambush of opportunity.

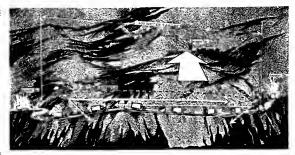


Figure 88 Example of harozing ambush of a vehicle column using assault and security elements; assault by fire only

- a. When your primary purpose is harassment, seal off the area to prevent reinforcement and escape of the enemy. Inflict maximum damage with demolitions and automatic weapons fire. Deliver a very heavy volume of fire for a short time and withdraw quickly and quietly. Do not assault, except by fire, and adoptively the possible, avoid being seen by the enemy.
- b. When your primary purpose is damage, seal off the area with security teams. Indict maximum damage with demotitions, antitank weapons, and automatic weapons fire from the autoport team or element. Lift or shift their fives and assault with heavy fire and great violence to complete destruction. The assault team provides accurity on the far side while designated teams kill or control of the control of the
- c. When your primary purpose is to obtain supplies or capture equipment, security teams seal off the area. Demolitions and weapons are used to disable vehicles, but not to destroy them. The assault team must use care to insure its fire does not damage the supplies or equipment you seek to capture. Designated teams score the desired items (fig. 90). Other teams then destroy vehicles and equipment If desired. If the ambush is executed to obtain supplies deep in the enemy area, you must insure that no enemy personnel are left to give information of your operation and, If possible, that all vehicles and remaining supplies and equipment are destroyed.

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Figure 85. Example of ambush to destroy a vehicle column. Assault element moves in to complete thetenetium.

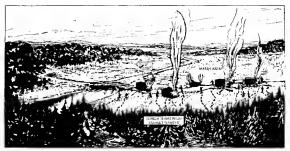


Figure 40. Frample of ambists to ablain supplies or explore companies. It stess: " is complete upon removal at equipment.

# CHAPTER 17 MOTORIZED PATROLS

#### 184. Purposa

Patrots are mounted in vehicles to allow them to-

- a. Cover greater distances in less time than dismounted patrols.
   b. Operale in contaminated areas too dangerous for dismounted patrols.
  - c. Carry more or beavier equipment, weapons, and ammuniting,

# 185. General and Special Organization

- A motorized patrol is organized into elements and lemms in the same manner as a dismounted patrol. An example of a motorized recommissance patrol is shown in figure 91. Substitution of personnel carriers for wheeled vehicles provides an increased potential for buttlefield mobility.
- o. When you assign men to vehicles, maintain fire teum or squad integrity as far as possible.
- b. Designate one man to be in communit of each vehicle.

# 186. Praparing a Motorizad Potrol

Generally, you prepare a motorized patrol in the anne munner as a diamounted patrol. In addition, however, you must insure that all vehicles are in good operating condition and are princely supplied with fuel, oil, and water. You must also insure that attached men, especially drivers, are thoroughly prepared for the mission.

### 187. Equipmant

- a. Molorizing your patrol enables you to carry hanvy or bulky equipment. For example  $\rightarrow$ 
  - (1) Antitank weapons and ammunition.
    - Long-range vehleular mounted radios.
       Surveillance equipment.
    - (4) Additional automatic weapons and ammunition.
- b. Antitank weapons should be placed near the front and rear

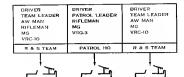


Figure 91. An example of the organization of a motorized reconnaissance patrol.

of the patrol. Designated personnel man these weapuns when arnior appears. a. You need some method of communicating with each vehicle

# 188 Control of Motorized Patrols

- and you must provide a means of rallying in case the pairol is dispersed. Within the patroi itself, use radios, voice commands, and visual signals. b. Vehicular mounted radios are usually the best means to com-
- municate with your commander.
- c. Aircraft may be used to drop written messages, relay radio messages, and provide security for the patrol by visual reconnuissunce

#### 189. Movement

A motorized patrol moves by one of three methods-

a Successive Bounds. When moving by successive bounds, the vehicles in the patrol keep their relative places in the column. The two leading vehicles operate as a team in moving from one observation point to another (fig. 92). The second vehicle in the column is placed in a concealed position and the occupants dismount, if accessary, to cover the movement of the first vehicle to the next observation point. At this observation point, the occupants of the just vehicle dismount to observe and reconnoiter. When the communder of the first vehicle determines the area in his vicinity is clear, he signals to the second white. Upon receiving this signal, the men assigned to the second which mont and move forward rapidly to join the first vehicle. The excupants of the second vehicle there exceet the first whitele during the next bound. The bound for the lead which about not exceed the range for effective fire support. Before beginning the next bound, the occupants of the leading vehicle carefully observe the terrain to their front for signs of the enerty. The vehicle commander selects his next stopping place before beginning his bound. The leading vehicle and personnel may be replaced frequently. The rest of the vehicles in the column move by bounds from one covered and concessed position to another. Each which somrally maintains visual contact with the vehicle to its front. Vehicles avoid closing on the vehicle to their front.

b. Alternate Bounds. In moving by alternate bounds, all except the two lead vehicles lesen their relative places in the column. The two leading vahicles alternate as the lead vehicle on each bound (fig. 92). This method provides a more rapid advance than moving by ascessive bounds; however, it does not allow the men in the second vehicle enough time to take a good look over the terrain to the front before they pass the first vehicle. The occupants of each lead vehicle cover the bound of the other vehicle as altescribed above.

c. Continuous Movement. In continuous movement, all vehicles proceed along the routa at a moderate rate of speed, moving rapilly but not sacrificing security. The landing vehicles stop to investigate only those areas that are particularly dangerous.

#### 190. Security

Security is obtained by requiring each vehicle commander to assign each passenger a direction to observe. As each vehicle moves along the route, its occupants are responsible for observing to the frunt, flanks, and rear. This provides each vehicle with rooms escurity against surprise far from avery direction and provides visual contact with vehicles to the front and rear. For maximum observation, all canvas is removed from wheels vehicles.

# 191. Actions at Danger Araos

a. Instruct the commander of the leading while to notify you immediately when he encounters an obstacle or other danger and when it is impossible to bypass an obstruction, approach it will caution. Normally, some of the men in the leading which dismount to reconnoiter these places. These men are covered by the weapons in that while.





WHEN THE LEAD YENGLE ARRIVES AT THE SELECTED INDOFFINE FUND. IT IN LOCALISATED INSCIDENTS AND MERCHANISTS IN THE ARCHITICATION OF THE A

b. For the security of the partod, investigate side roads that interact the route of advance. Secure the road junction with the men and automatic weapons from one vehicle; then send one or two vehicles down the side road to make the investigation. Decide the amount of recommissance to be confucted along these side roads according to your knowledge of the situation. Keep men, who investigate side roads according to the side roads according to the roads.

c. Bridges, road junctions, defiles, and curves that deny observation beyond the turn are dangerous to your patrol. The men dismount and take advantage of all available cover and concentment to investigate the dangerous locality (fig. 33). The weapons



Figure 23. Patrole dismount to investigate dangerous areas.

- from this vehicle cover the advance of the investigating personnel. The driver mans any vehicular-mounted weapon after moving his vehicle off the road into a covered and concealed position.
- d. If the patrol approaches a village, you may send two or three men ahead on foot to reconnoiter. Place other men in covered and concealed positions to covar their movement.
- c. Roadblocks usually are covered by antitank and automatic weapons. Antitank and antipersonnel mines may also be placed in their vicinity. Dismount the patrol and investigate roadblocks as you would any other dangerous area.

## 192. Actions on Enemy Contact

- a. Your actions when you contact the enemy depend on your mission. You may not need to lake offensive action. If the mission requires offensive action, you must be aggressive. For example, suppose the hashing vehicle encounters a roadshock (fig. 94). The commander of the first or second vehicle immediately notifies you of the situation. The two vehicle commanders then diamount their men and place ihem in firing positions to rature the enemy's far.
- b. Mowe forward to a covered position, dismount, and go forward in foot be make an estimate of the situation. Decide how you can use your force to quickly knock out the enemy. Instructor the assistant patrol leader to dismount and bring the remainder of the patrol forward. While the patrol prepares to attack, luform your commander of the situation.

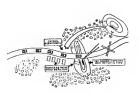


Figure 24. The putrol destroys the enemy defending a roadblock.

c. Leave at least one automatic weapon, with the patrol's vehicles and have the drivers move their weblices of the road. Drivers protect their vehicles with automatic weapons and individual arms. Include in your plane a means of protecting your flanks. When stacking the enemy, employ automatic weapons wherever possible. Upon capture or destruction of the enemy, notify your commander and proceed on the mission as soon as possible.

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#### CHAPTER 18

# AIRMOBILE AND WATERBORNE PATROLS

#### 193. General

- a. Patrols may move to and return from an objective area by air or water. Patrols from airboras units may land by parachule and patrols from all units may land or retura by plane, helicopter, boat, or aubmarine. Patrols may saker enemy areas by one means and return by another. For example, a patrol from an airborne unit may land by parachule and retura by hallcopter, or a patrol may reach the objectiva area by boat and return on foot.
- b. Air or water transportation is arranged by your commander. You are responsible for detailed coordination.
- c. Airmobile and waterborne patrois require more detailed planning and preparation than foot patrols. They usually require additional personnel and equipment.

#### 194. Airmobile Patrals

- a. Personnel. If a patrol is laaded by parachute, or if it is landed or returned by plane or helicopher as Army pathfinder team may be needed. If a pathfinder team is not available, soldiers trained in terminal guidance procedures may be needed. The need for these individuals varies with the eaemy situation, light and wasther conditions, laading sites used, type of aircraft, and personnel operation its aircraft.
- b. Equipment. Signal lights, signal panals, electronic homing beacons, and radios may be needed to ideatify drop zones and hair ing sites and to guide aircraft to the proper location. This equipment is organic to Army pathfinder teams. If pathfinder teams are not used, your commander provides needed sculpment.
- c. Organization of Morement. When more than one aircraft is used, organize your patrol so that, as nearly as possible, each aircraft carries a balanced fighting tann with the best capability of for accomplishing the mission if one or more aircraft are lost. This is called "cross-loading" of personnel, weapons, and equipment.
- d. Reorganization After Landing. You must select as assembly area near the drop zons or landing sits. It must be easily recog-

nizable and readily available to all. The drop zone or landing site must be cleared quickly and reorganization for movement to the objective accomplished without delay.

c. Navigation. It is absolutely necessary that you know your exact focation before beginning movement to the objective. A relatively slight error at this point can cause you to miss the objective and fall in the mission.

 Arranging for Pickup. Arrangements must be made for pickup and return of the patrol.

- (1) You can meet the aircraft at a designated location at a specified time. This places a time restriction on you which may hamper your operations. The aircraft may be unable to land without pathinder or terminal guidance assistance. If these individuals are with you and you are late, pickup may be missed. If they are sent ahead, you risk losing them to the enemy.
- (2) You may be able to call in the aircraft by visual signal auch as amoke or flares. This might be used if the situation allows the aircraft to orbit within range of visual signals. Remember that visual signals may be seen by the enemy.
- (3) Generally, radio is the best means to call for aircraft. If based beyond the range of radios in the patrol, aircraft can orbit at relatively great distances and come in on call.

#### 195. Woterborne Potrols

Waterborne patrols may move by sea, across lakes, or on rivers.

The actual landing is usually by small boats, even though the initial move may be by ship or submarine.

- a. Personnel. Additional personnel may be needed to assist in handling or operating beats, assist in navigation by preceding the patrol to shore and setting up signals, and in securing the landing site both upon arrival and departure.
- b. Equipment. Signal devices may be needed just as in an air-mobile patrol. All individuals should have life preservers. When inflatable boats are used, repair kits must be included. Inflating equipment such as hand pumps or carbon dioxide cartridges may be destrable.
- c. Organization for Movement. Cross-loading of personnel, weapons, and equipment is essential even when the overwater movement is short, as in moving from a submarine to shore. On

longer movements, such as on a lake or river, the possibility of losing equipment if a boat overturns is greatly increased.

d. Reorganization after Landing. Reorganization must be rapid. You are very vulnerable with a water obstacle behind you.

e. Navigation. This is important, just as in an airmobile patrol (par. 194).

f. Arronging for Pickup. Arrangements for pickup and return of the patrol, when applicable, are similar to aircraft pickup. Generally, you must return to the site at which you landed. It is soldom practical to carry small boats to the objective and to another location for pickup.

- (1) Generally, the most satisfactory method is to meet the ship or submarine at a specified time. A ship or submarine is not as restricted in lying offshore as an aircraft is in waiting at a landing site. This sllows more fiexibility in time schedules.
- (2) Visual signals, except for recognition, ars mora limited. Pickup is more practical at night than in day and visual signals such as flares are certain to attract enemy attention.
- (3) The alower arrival speed of ships and submerines reduces the value of radios as a means of calting for pickup.

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# CHAPTER 19 EMPLOYMENT OF SCOUT DOGS WITH PATROLS

#### Section I. GENERAL

#### 196. The Infantry Scout Dog Pictors

Scout dogs used in the Army today are found in infantry scout dog platoons (see FM 20-20). Elements of a platoon are attached to lower units for specific missions or periods. They unually are employed as scout dog teams, each team consisting of a scout dog and a handle

#### 197. Mission

The mission of a scout dog team is to support you by detecting the enemy and giving silent warning. Taams may assist you on patrols, observation posts, outposts, and listening posts.

## 198. Praparotion and Planning for Use of Scout Dogs

- a. When so infantry scout dog platoon is attached to an infantry unit, the platoon commandar advises the commanding officer and makes recommendations for the employment of the platoon.
- b. The platon commandar la briafed on planned missions as far in advance as possible. This allows him time to select the scout dog team which will be most effective for each mission. It also gives the handlers time to prepare themselves and their dogs.
- c. When scout teams are employed with units that have not previously used them, personnel are carefully oriented on the ecoul dog team's canabilities and limitations.
- d. The presence of a acout dog team causes varied reactions among personnel unfamiliar with acout dogs. Some men may feel an exeggerated sense of security while others may become agine tated and apprehensive. Prevent these extremes by having the hendler brief the patrol on the team's purpose, capabilities, limitations, and method of oueration.
- e. A scout dog team usually is attached to a small unit such as a patrol for a particular mission. Whan possible, the same team works with the same unit or patrol for different missions. Performance improves as the team becomes familiar with the personnel.

# 199. Limitations of Scout Dag Teams

- a. Alertness must still be maintained when a scout dog team accompanies a patrol. The team can almost always detect the enemy before you, but both handler and dog have limitations.
  - (1) A scout dog has an acute sense of smell, keen hearing, and eyes that are unusually sensitive to movement the dog's use of these faculties is affected by weather and terrain conditions such as rain, smoke, fog, dust, havy underbrush, and thick woods. His effectiveness is reduced in areas of much noise and moveman.
  - (2) A scout dog must be retrained periodically. The longer he goes without retraining, the less effectively he performs.
  - (3) A dog la subject to the elaments the same as a human. He tends to be less alert when extremely cold or when overheated.
  - (4) The handler must concentrate on "reading" his dog. This is difficult to do for extended periods. Take two scout dog tesms on long patrols and alternate them for best results.
- b. Despite limitations, a scout dog team is a vary valuable aid. Consider the team's limitations, but capitalize on its atrengths.

# Section II. USING SCOUT DOGS WITH PATROLS

#### 200, Praparation

a. The second dog team joins the patroi in time to hear the warning order and participates in all phases of planning, preparation, and execution. The handler attends the debriafing.

- b. The handler will give his recommendations for amployment of the team. Your plan for amployment is included in your patrol leader's order.
- c. Rehearsals sasist in completely integrating the secont dog cam into the patrol. The patrol members become familiar with the team's mathod of operation. The dog becomes familiar with the scents of individual patrol members and with the noises and motions of the patrol on the move.

## 201. During Movement

a. Generally, the best position for the acout dog team is directly in front of the patrol. The team precedes the patrol, keeping generally on the assigned direction of movement. Wind conditions may dictate that the team move on the windward side of the



Figure 95. The day is scent-familiarized with all members of the putral.



Figure 86. The scout dog team is placed on the windward sale of the patrol.

route of advance to take maximum advantage of the dog's senses of smell and hearing.

- b. The distances at which the team detects the enemy depend in the bound of the distance at which the team detects the enemy depend on any specific part of the distance and terrain. No average can be stated, but reliability is very high at 300 meters. Adverse conditions permit detection at far greater distance. Adverse conditions, such as wind from the rear, reduce the effective distance, such as wind from the rear, reduce the effective distance.
- c. If the wind is blowing from either side rather than directly from the enemy, the process of detection may take longer since traversing may be necessary. In some situations, this traversing can be done by the team while the patrol continues on a direct rante.
- d. When the handler signals that the dog has detected the enemy, half the patrol immediately and approach the landler on the side opposite the dog so the dog will not be distructed. From the nature of the dog's abert, the bandler can tell you the approximate direction, distance, and location of the enemy. The Information "read" by the handler is more exact as the team maves closer to the centre.
- e. If it is not practicable for you to reconnoiter the position, the scout dag team can do this and report to you. In such a situation, you must provide security for the team.

# 202. At The Objective

- a. The scout dog team is especially valuable in the objective area. The team can locate sentrice, determine the extent of positions, and pinyoint specific positions. When the mission is reconnaisance, and near approach of the patrol is not practicable, the team may be able to recomposite the objective and secure the needed information. When the mission is combat, information obtained by the team may allow you to position your patrol without being detected before you are ready to attend.
- b. The acout dog team does not participate in combat actions at the objective. During this action, the team is positioned to the rear or to a flank where it can provide security and be prepared to assist the patrol on the return route.

#### 203. Protection of The Scout Dog Team

The scout dog works on a leash in front of the handler. When working, the dog requires the handler's full attention; therefore, he cannot work the dog effectively and use his individual weapon

at the same time. You must assign a patrol member to accompany and protect the team at all times.

# 204. Action if The Handier Becomes A Casualty

- a. If the handler becomes a casualty, he is treated according to the patrol's casualty plan. If he is left for later evacuation, the dog is left with him. If the handler is taken with the patrol, the dog usualty will follow. If the dog does not follow, assign a patrol member to lead him by the leash.
- b. Occasionally, a dog may adopt a protective attifude and refuse to allow anyone to approach if the handler is unconscious or otherwise unable to control him. If the tactical situation permits, make every effort to lure or force the dog away as proper treatment can be given. If the situation does not permit time to lie sport in this manner, or if the efforts fail, destroy the dog. The dog will not be detroyed however, if the handler is known to be dead. In such a case, both dog and body will be left and recovered by personnel of the infantry sout dog platoon.

#### 205. Proper Use of The Scout Dog Team

The effectivenese of the scout dog team depends on you, the patrol leader. You must give the handler freedom to employ his dog to best edventege. Whenever possible, let the handler eelect the team's position in the patrol formation. Heed his advice end sat the most that beem has to offer.

# APPENDIX I

Dictionary of Hoited States Army Terms

# REFERENCES

AR 320-50	Authorized Abbreviations and Brevity Codes.
AR \$85-63	Regulations for Firing Ammunition for Train-
	ing, Target Practice, and Combat.
FM 5-15	Field Fortification.
FM 5-20	Camouflage, Basic Principles and Field Camou-
	flaga.
FM 5-25	Explosives and Demolitions.
FM 5-31	Usa and Installation of Boobytraps.
FM 5-36	Routa Reconnaissance and Classification.
FM 6-40	Field Artillery Cannon Gunnary.
FM 6-115	The Field Artillery Searchlight Baltery.
FM 7-10	Rifla Company, Infantry and Airborne Division
	Baitle Groups.
FM 7-11	Infanlry, Airborne Infantry, and Mechanizad
	Infaniry Rifle Company.
FM 7-15	Infaniry, Airborne Infantry, and Mechanizad
	Infantry Rifle Platoon and Squad.
FM 7-20	Infantry, Airborne Infantry, and Mechanized
	Infantry Battalions.
FM 7-24	Communication in Infantry and Airborna
	Divisions.
FM 17-1	Armor Operations; Small Units.
FM 17-35	Armored Cavalry Platoon, Troop, and Squadron.
FM 20-20	Mililary Dog Training and Employment.
FM 20-32	Land Mine Warfare.
FM 21-5	Military Training.
FM 21-6	Techniques of Military Instruction.
FM 21-10	Military Sanilation.
FM 21-11	First Aid for Soldiers.
FM 21-26	Map Reading.
FM 21-30	Mililary Symbols.
FM 21-40	Small Unit Procedures in Nuclear, Biological,
	and Chemical Warfare.

Soldier's Handbook for Nuclear, Biological, and

Chemical Warfare.

AR 320\_5

FM 21-48	Chemical, Biological, and Nuclear Warfare Training Exercises and Integrated Training.
FM 21-50	Ranger Training.
FM 21-60	Visual Signals.

FM 21-50 Visual Signals.
FM 21-76 Visual Signals.
FM 21-77 Evasion and Escape.
FM 21-77A Evasion and Escape. (U)

FM 21-77A Evasion and Escape. (U)
FM 21-150 Hand-to-Hand Combat.
FM 23-5 U.S. Rifle, Caliber 30, M1.
FM 23-7 Carbine Caliber 30, M1 M1A1 M2 and

FM 23-7 Carbine, Caliber .30, M1, M1A1, M2, and M3. FM 23-8 U.S. Rifle, Caliber 7.62-MM, M14.

FM 23-25 Bayonet, FM 23-30 Grenades and Pyrotechnics.

FM 23-30 Grenades and Pyrotechnics.
FM 23-55 Browning Machineguna, Caliber 30, M1917A1,
M1919A4 M1919A4E1, M1919A6, and M37.

FM 23-67 Machinegun, 7.62-MM, M60.

FM 27-10 The Law of Land Warfare.
FM 30-7 Combat Intelligence: Battle Group, Combat

Command, and Smaller Unita.

FM 30-101

The Manauver Enemy.

FM 30-102

Handbook on Aggressor Military Forces.

FM 30-108

Aggressor Order of Baitle.

FM 30-103 Aggressor Order of Battle.

Operations Against Irregular Forces.

FM 31-50 Combat in Fortlifed Areas and Towns.

DA Pam 21-81 Individual Training in Collecting and Reporting

Military Information.

ASubjScd 21-21 Land Navigation.

DA TC 7-3 Functioning and Employment, Antipersonnel

Weapon (Claymore) M18 and M18A1.

#### APPENDIX II

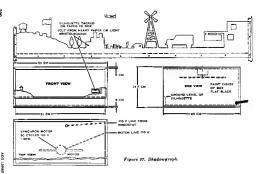
## EXERCISES FOR TRAINING IN NIGHT VISION

# 1. Equipment and Conduct

- a. To conduct night vision exercises indoors, the instructor uses the following equipment: a room which can be completely blacked out, while screens (1.5 meters high) placed at opposite sides of the room with bases two meters from the floor, shadowgraphs assupended from the ceiling four meters apart and three meters from the screens, charts of the light spectrum as intervals of four meters along the walls above the screens, and red lights suspended from the estimate above such spectrum chart.
- b. The shadowgraph (fig. 97) places Images of objects on a screen as they appear in natural darkness; therefore, it provides an excellent training aid for instruction in night vision.
- c. A shadowgraph can be built from a box 30 by 30 by 22 centimaters. Within the box are the following: a small 110-volt bulb, an electric clock motor, and an arm with airplane silhouettee on each end fastened to the clock motor. The clock motor causes a rotating sirplane silhouette to be cast on the sersan every 30 seconds. A cutout with silhouettes of various objects is placed on that front box, raproducing this objects on the white screen on the wall. The light source line should include a rheostat wived in series so cansil illumination of all excesse is achieved.
- d. A field expedient shadowgraph may be constructed when equipment is not accessible for a more elaborate ons (fig. 93). An ammunition box or something similar may be used. The top and ammunition box or something similar may be used. The top and paper are placed over the open side. A light source of a motified flashibith is used to nonicet the allbouettee on a screen.
- e. For conducting the exercises outdoors, the instructor uses natural terrain features, manmade objects, and individuals. The shadowgraphs and screens should not be used outdoors.

#### 2. Training

a. Training in night vision can be conducted indoors or out-doors, but it is better to teach the subject indoors first and to teach all aspects of it in one period.



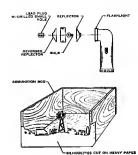


Figure 98. Field expedient shadowgraph.

b. The procedure for outdoor training is the same as for indoor training. However, the light intensity should be equal to that of a brilliant helf-moon. If the light is too dim, little can be seen; if it is too bright, the training is of little value.

# Exarcises

## a. Indoors.

(1) The class is seated before the room is blacked out, and night vision is explained. The room is then blacked out and the shadowgraph is turned on. The instructor continues to question the class to determina the rapidity of dark-adaptation among its members. He has the students look at a point where the floor meets the wall and then has them move their eyes up the wall and back down again in short abrept movements. This is examing each letips the students to heate the class to look first toward one side of the screen and then the other, glanding out of the screen and then the other, glanding out one side of the screen and then the other, glanding out of the screen and then the other, glanding out of the screen and then the other, glanding out of the screen and then the other, glanding out of

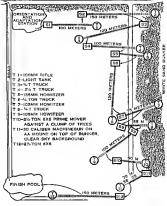


Figure 35. Layout of outdoor wight vision training course.

the corners of their eyes. This is off-center vision. They continue to shift their eyes in this manner until their angle of off-center vision is established. The instructor continues the practice of off-center vision and scanning until the students have developed confidence. Many men see the images, but do not believe such images are actually present until their confidence is developed.

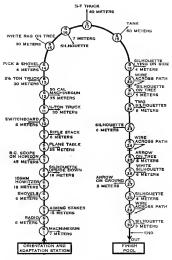


Figure 100. Layout of alternate outdoor night vision training course.

- (2) When all students' eyes have become dark-adapted, red lights are turned on and the color spectrum is pointed out to them. Their attention is directed to the apparent loss of several colors and the fact that the other colors appear as various shades of black or gray. Red lights are then turned off to demonstrate that night vision has been retained. The instructor then has the students cover one eye, and turns on an ordinary white light. Students destroy the night vision of the onen eye by looking directly at the light for about a minute. The students are again shown the color spectrum, and it is pointed out that the colors which had apparently disappeared under the red light, all had pigments of red in them. This demonstrates that red colors cannot readily be seen under red light. After about 2 minutes in normal light, the classroom is darkened. The students keep one eve closed and see that dark-adaptation had been preserved by keeping one eye dark-adapted. When the students open both eyes, the eye not dark-adapted will feel as though a heavy weight is pulling it down. This is because the eye is attempting to adjust to the same degree as the dark adapted eye.
- b. Outdoors. The procedure is the same as initions except, available natural levrain features, manusale objects, and identification attractors are used. Outdoors, the students also observe through blocoulars, noting the improvement in vision over the naked sys. See figures 99 and 100 for two outdoor layouts which can be used as voites.

# APPENDIX III PATROL TIPS

#### Section I. PREPARATION

- 1. Make a detailed map study; know the terrain in your ojective arm; on short patrols, memorize your route; for long patrols, select terrain features to help you keep oriented. A piece of acctate over luminous tape can be used to make a rough sketch or strip map. The sketch map will glow in the dark and make the use of lights unnecessary. Use a grease peucit so marks can be easily erased.
- Consider the use of difficult terrain in planning your route.
   Impassable terrain is very rare.
- 3. Plan an "offset" in your route when applicable. An offset is a planned magnetic deviation to the right or left of the straight line azimuth to an objective. Use it to verify your location right or left of the objective. Each degree you offset will move you should I'm meters to the right or left for each 1000 meters you travel.
- When your patrol is to infiltrale the enemy area, select an alternate rendezvous point for use if the first point cannot be used.
- Consider all types of granades, fragmentation, white phosphorus, concussion, and smoke, together with the use of the grenade launcher.
- 6. Reconnalesance patrols should carry at least one automatic weapon. It provides valuable sustained firepower.
- weapon. It provides valuable sustained firepower.

  7. Avoid taking weapons requiring different types of ammuni-
- tion. It makes ammunition redistribution difficult.

  8. Clean, check, and test fire all weapons before departure.
  - S. Clean, check, and test fire all weapons before departure
  - Carry gloves to protect hands.
     Carry at least two flashlights and two each of such critical
- items as binoculars, wire cutters, and fuze crimpers.
- 11. Carry extra flashlight and radio batteries on long patrols.

  12. Every man should carry his canteen and poncho. Consider having each man carry two canteens on long patrols. If special
- circumstances make it undesirable for every man to carry his canteen and poncho, carry at least two of each in the patrol.

  13. Ponchos can be used to make litters, construct rafts, conceal
- Ponchos can be used to make litters, construct raits, concealights, and as shelters.

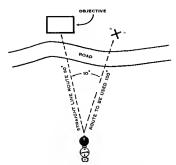


Figure 101. Use of offset. Remember the distance from "X" to the objective will vary directly with the distance to be traveled and the number of degrees offset.

- 14. Have every man carry an extra pair of socks.
- 15. Harness should be worn when the web belt is worn.
- 16. Carry individual weapons cleaning equipment on all patrols.
  - 17. Consider the use of scout dogs, if available.

cover or remove it when near the enemy,

- 18. A length of rope secured to the harness can be used for binding prisoners, climbing or descending obstacles, and crossing streams.
- 19. Two pieces of luminous taps, each about the size of a lieutenant's bar, worn on the back of the collar aid in control and movement on dark nights. Turn the collar down when near the enemy. The tape also can be worn on the back of the cap, but
- Use friction tape to secure rifle swivels, sling, and other items which might rattle.

- 21. Be sure to camouflage the back of your neck, behind your ears, and the backs of your hands.
- 22. Provide for security by assigning every man an area of responsibility.
- 23. Designate at least two pacers and usa the average of their individual counts.
- 24. Fold maps before departing so they can be more sasily handled when checking.
- Preset compasses before departing. Preset more than one compass for each setting required.
- 26. Prepare a list of questions or a checklist to be used at friendly positions with which you will coordinate.

  27. When appropriate to the mission, arrange to have a light aircraft reconnoiter shead of your natrol to keep you informed of
- any anamy activity or ambushes along your route.

  28. Take your subordinate leaders with you on reconnaissance
- if possible.

  29. Prearrange and rehearse all aignals to be used. Keep signals
- simple.

  30. Plan time for your patrol members to dark-adapt their ayes if you have a night patrol.
- 31. Unz available visual aids in lasuing your patrol leader's ordsr. The use of a blanket board, blackboard, or a skatch on tha
- ground is helpful,

  32. Do not earry maps marked with information that might aid the enemy.
- 33. Conduct rehearsals on terrain similar to that over which you will operate. Conduct day and night rehearsals for a night patrol.
- 34. Inspect your patrol carefully before rehearsals and before departure. Question men to check their knowledge and understanding of the actions planned.

#### Saction II. EXECUTION

- 35. On small patrols, the count should be sent up automatically after each halt or passage of a danger area. In large patrols, use the chain of command to account for men.
  36. Use the point for security and not for navigation.
  - 37. Check navigetion frequently. You are responsible.
  - 38. On long patrols, change point and compass men occasionally.

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39. Use an alternate challenge and password outside friendly areas.

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- In mountainous terrain, use ridgelines for movement whenever possible, but do not move along ridgetops. Stay off the skyline.
  - 41. Wespons are always carried at a ready position.
- 42. Cut enemy wire only when necessary. Make a reconnaissance first.
- 43. When moving at night, take advantage of any noises such as wind, vehicles, planes, battle sounds, and even counde caused by insects.
- 44. Do not move on roads and trails unless absolutely necessary.

  45. Aid movement in daylight, especially in dense terrain, by
- using night compass settings.

  46. Avoid lateral movement across the forward position of the
- 46. Avoid lateral movement across the forward position of the enemy area.
- 47. Over short distances such as the width of a road, the compass can be used for signaling at night. A piece of luminous tape can also be used.
- 48. Crossing roads in enemy territory is a matter of common sense. Each situation may dictate a different method. You will not violate setablished procedures if you proparly reconnolter before crossing the road. Establish adequate security and move sientity and quickly to avoid election. A main point of consideration in any road crossing is control of your unit. Some of the accepted methods for crossing roads are:
- a. Patroi can form a ekirmish line and move quickly and quietly across the road.
  - b. The entire patroi can form a file, following the footsteps of the man in front in order to minimize footprints.
    - c. Men cross the road a few at a time until patrol is across.

      49. Crossing streams is similar to crossing roads: reconnais-
  - same and security are necessary.

    60. When it is necessary to leave a wounded man to be picked up on your return trip, leave another man with him if possible. Walking wounded return on their own to friendly areas if possible. When near the stemy, remove the wounded from the immediate area before sopplying first slid.
    - SI Avoid eli human habitationa
  - 52. Bypase enemy positions or obstacles by offsetting around them. Stay oriented by moving at right angles for specified distances. For example, you are moving on an azimuth of 360° and wish to bypess an obstacle or position. Change direction be 90° and move for 100 meters, change direction back to 360° and move for 100 meters, change direction to 270° and move for 100 meters.

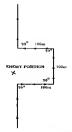


Figure 102. Offeet around enemy positions or obstacles,

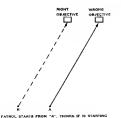


Figure 103, Effect of an error in reaching the objective.

FROM "B AND ATTACRS WRONG OBJECTIVE

then change direction to 360° and you are back on your original route.

53. Break contact with the enemy by the "clock system," by fire and movement, or by a combination of both.

54. Know your location at all times. This is particularly important when you change direction and when you land on an airmobile or waterborne patrol. A relatively slight error can cause you to miss your objective.

#### Section III. MISCELLANEOUS

55. Keep the cutting edge of the entrenching tool extremely sharp. It is a good silent weapon and can be used in lieu of a machete.

56. A garrote can be used for killing a centry or capturing a prisoner,

57. Do not jeopardize security by letting eer fleps end hoods interfere with the hearing ability of the natrol.

58. Keep talking to a minimum. Use arm-and-hand signals to the maximum.

59. When reconnoisering enemy positions, keep a covering force within supporting distance of the reconneissence element.

Never throw trash on ground while on petrol. Bury and camouflage it to prevent detection by the memy.

61. When contacting friendly egents such as partisans, never take the entire patrol to make contact with them. Have one man make the contact and cover him.

62. Derk, rainy, windy nights are best for patrois.

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